Analysis Report about Amber Heard

2019 Reddit Contributions

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Introduction

Note: This report is a part of **Case Study: "Reddit Social Network Analysis Against Influence Operation"**

By analyzing accounts posting/commenting against a victim of a Social Bot Disinformation/Influence Operation.

We have four main datasets scraped from Reddit

- 1. A dataset with submissions & comments data (2019).
- 2. Users Data (from 2006 to 2019).
- 3. A merged dataset (submissions & comments data, users data).
- 4. Daily creation data (# of accounts created per day from 2006 to 2019).

The data Timezone is Epoch/UTC.

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Overview

- About **19.82%** of **2019 contributions** were made by
  - banned [1]**(7.92 % → 1875)** .
  - unverified [2]**(11.9 % → 2819)** .
- About **18.3% of 2019 submissions** were made by
  - banned **(3.8% → 527)**
  - unverified **(4.52% → 173).**
- **18.9 %** of the **peak day (2019-03-15)** were made by
  - banned **(5.68% → 183).**
  - unverified **(13.3% → 427).**
- **10%** of **submissions** of the **peak** day submissions **(2019-03-15)** were made by
  - banned accounts **(2.5% → 1).**
  - unverified accounts **(7.5% → 3).**

Statistics of unverified accounts

- **Description of contributions scores**
  - count[3] 2809
  - mean 13.32
  - std 96.85
  - min -150
  - 25% 1
  - 50% 2
  - 75% 7
  - max 3748
- The percentage of **2019 contributions** made by **Unverified** accounts **11.9%** with **2819 contributions.**
- Total **unverified** accounts **comments** in **2019**, **2646.**
- Number of contributed **users** is **1614**.
- The percentage of **2019 submissions** made by **Unverified** accounts **4.53%** with **173 submissions.**

Statistics of Banned accounts

- **Description of contributions scores**
  - count 1871
  - mean 38.32
  - std 173.02
  - min -247
  - 25% 1
  - 50% 3
  - 75% 16
  - max 4700

[1] This user banned from reddit
[2] The user has not verified mail for this account.
[3] Number of contributions of unverified accounts which have scores.

- The percentage of **2019 contributions** made by **Banned** accounts **7.92%** with **1875 contributions.**
- Number of contributed **users** is **769**.

- Total **banned** accounts **comments** in **2019** is **1348.**
- The percentage % of **2019 submissions** made by **Banned** accounts **13.8%** with **527 submissions**

Top users statistics:

- **"3rdPrizeIsYourFired"(banned)** these user contributions got the highest scores.

  (Since this user is banned, we have no user information but, we can further investigate his contributions)

  - made 6 contributions
    - submission 5
    - comment 1
- **Peregrino234(banned)** this user contribution got the minimum scores.
  - he made 6 different comments in one subreddit **r/pussypassdenied** in the same day **2019-03-03**
- "**imsrikant**"**(banned)**: this user made 22 submissions with the same text in the same time in 6 different subreddits
  - r/Celebhub 8
  - r/gentlemanboners 7
  - r/CelebBattles 4
  - r/Celebs 2
  - r/goddesses 1
  - r/WatchItForThePlot 1

  in these dates

  - 2019-05-04 6
  - 2019-04-17 6
  - 2019-05-06 3
  - 2019-04-15 3
  - 2019-04-19 2
  - 2019-12-28 1
  - 2019-04-16 1
  - 2019-05-10 1
- **users with highest link karma (unverified)**
  - 'WikiTextBot'
  - 'agree-with-you'
  - 'B-VOLLEYBALL-READY'
- **agree-with-you(unverified)** unverified account with the highest comment karma
  - made 2 comments on two different subreddits:
    - r/PurplePillDebate 1
    - r/JerkOffToCelebs 1
  - the time of two comments is: 2018-03-11 00:17:42

- A lot of unverified users has a link karma of **1**

    'spudd666', 'SkribbleSkout', 'itsmevictor', 'pragmaticerection', 'IWW4', 'Zozbot', '1Telluride', 'Beaniebabetti', 'Jewels419', 'hackerman991', 'Quilpo', 'keyboardbuddhist'

- **ee4m (unverified)** has the minimum comment karma
- **RoyisOurBoy (unverified)** this user has the highest score among the unverified users
    - created at 2019-03-02
    - made 3 submissions in 2 different subreddits:
        - r/entertainment 2
        - r/movies 1
- **JustMadeThisNameUp (unverified)** this user has the minimum score among the unverified users

Statistics of 2018 and 2019 accounts.

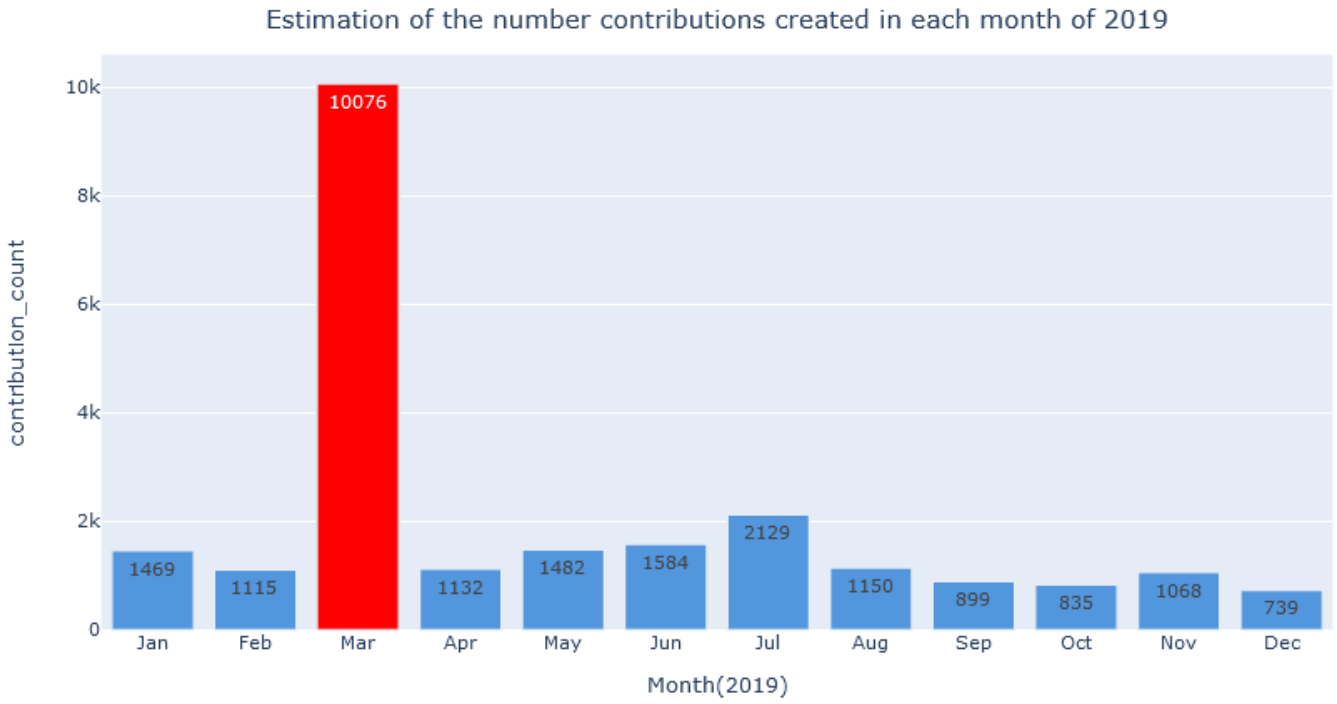
- About 23.79% of 2019 **Contributions** in 2019 were made by users created in 2018 and 2019.
    - 2018 (14.2% → 3357).
    - 2019 (9.59% → 2270).
- About 15.91% of 2019 **Contributions** on **2019-03-15** were made by users created in 2018 and 2019.
    - 2018 (12.4% → 399).
    - 2019 (3.51% → 113).
- About 25.4% of 2019 **Submissions** in 2019 were made by users created in 2018 and 2019.
    - 2018 (14.7% → 562).
    - 2019 (10.7% → 408).
- About 17.5% of 2019 **Submissions** on **2019-03-15** were made by users created in 2018 and 2019.
    - 2018 (15% → 6).
    - 2019 (2.5% → 1).

2019 accounts contributions scores

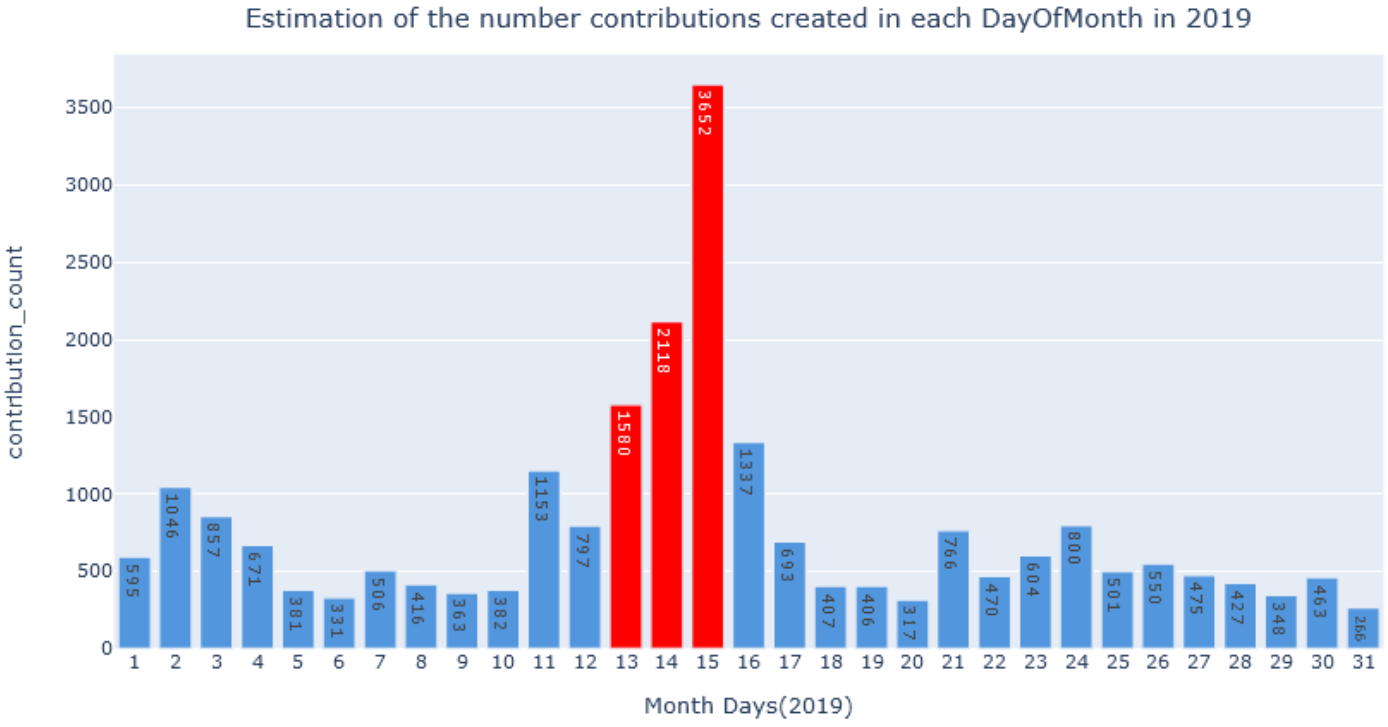
- count 23630
- mean 23.89
- std 175.29
- min -247
- 25% 1
- 50% 2
- 75% 9
- max 13581

Peaks

Peak Months

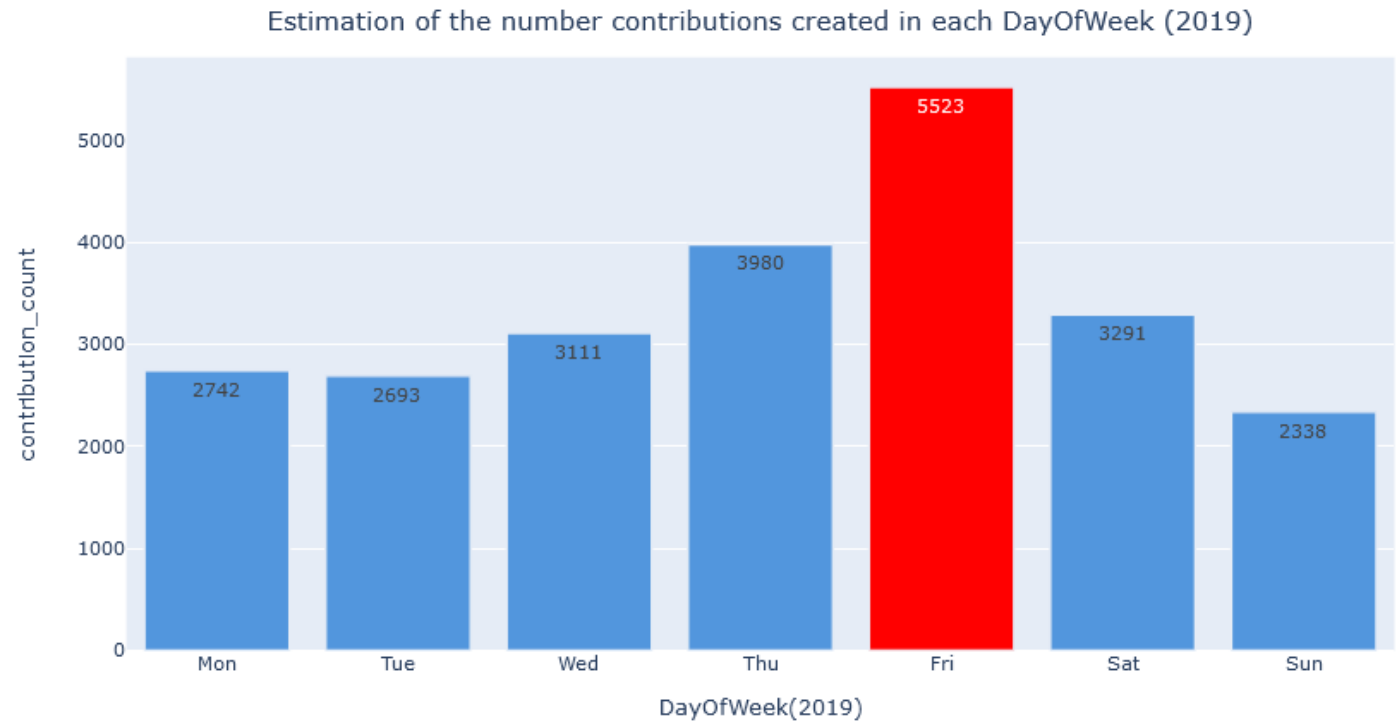


Peak Days of The Months[4]

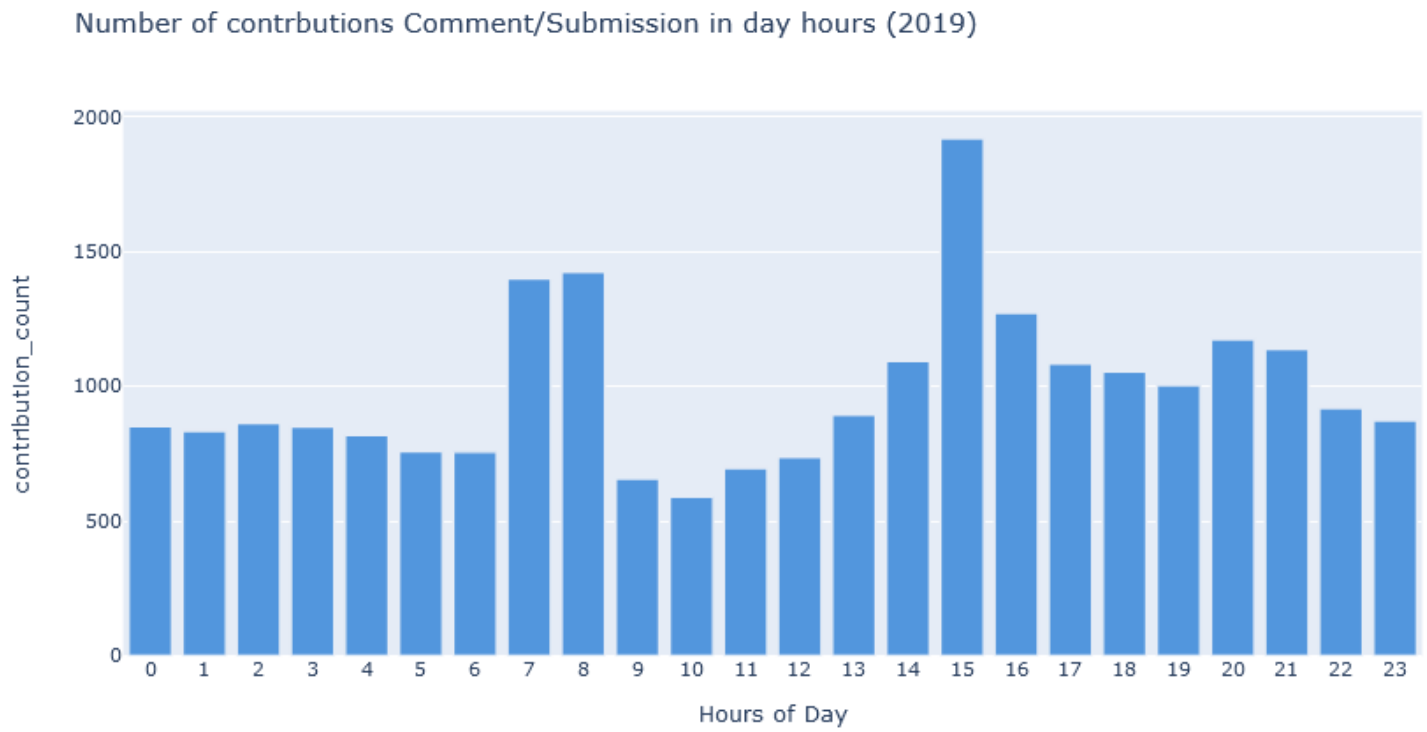


[4] Day of month means day 1 in all months, 2 in all months.. etc. (sum of all contributions on the same day of each month)

Peak Days of The Week



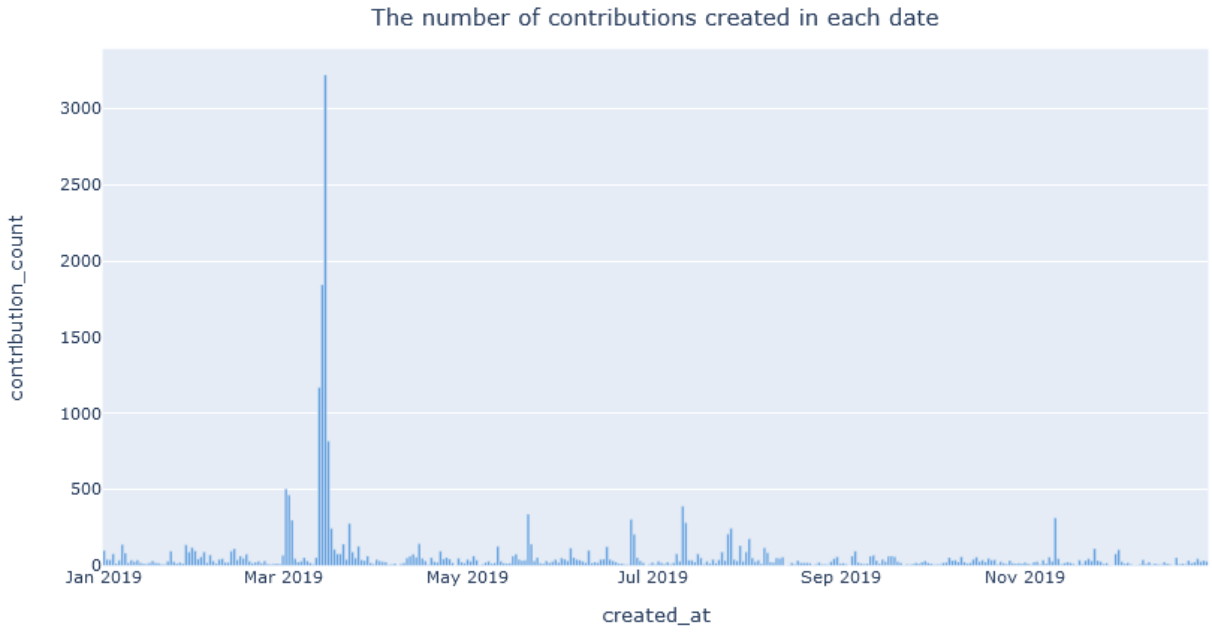
Peak Hours

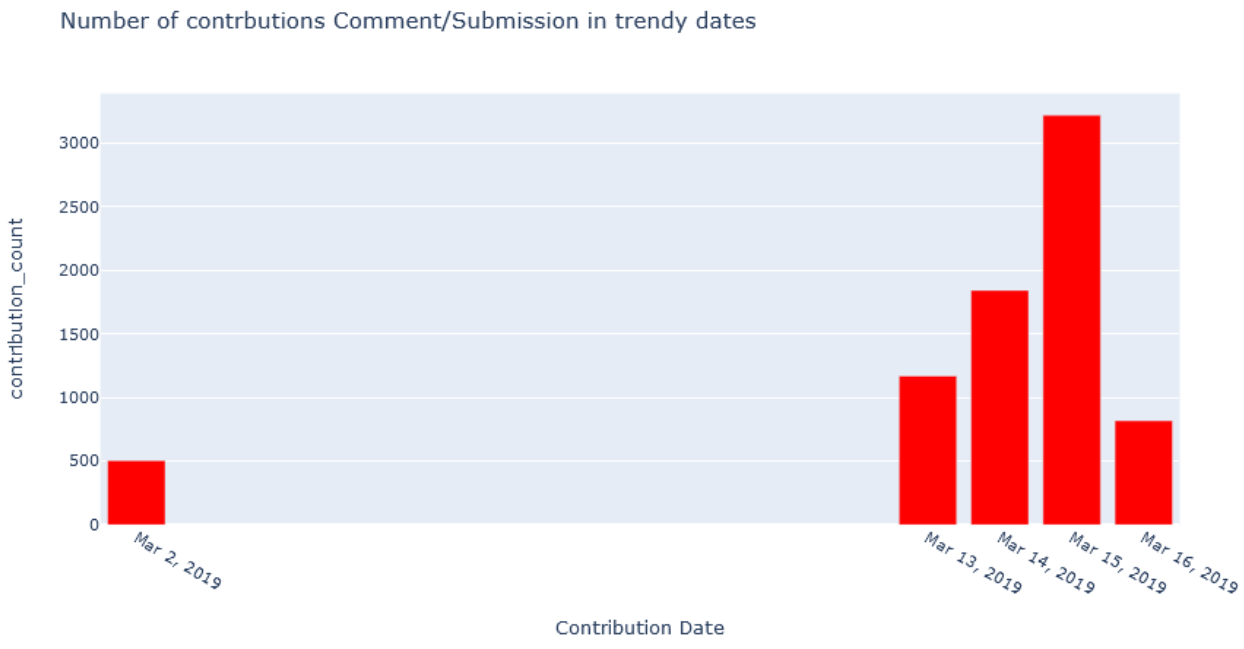


Peak Dates

In this year the peak dates are:

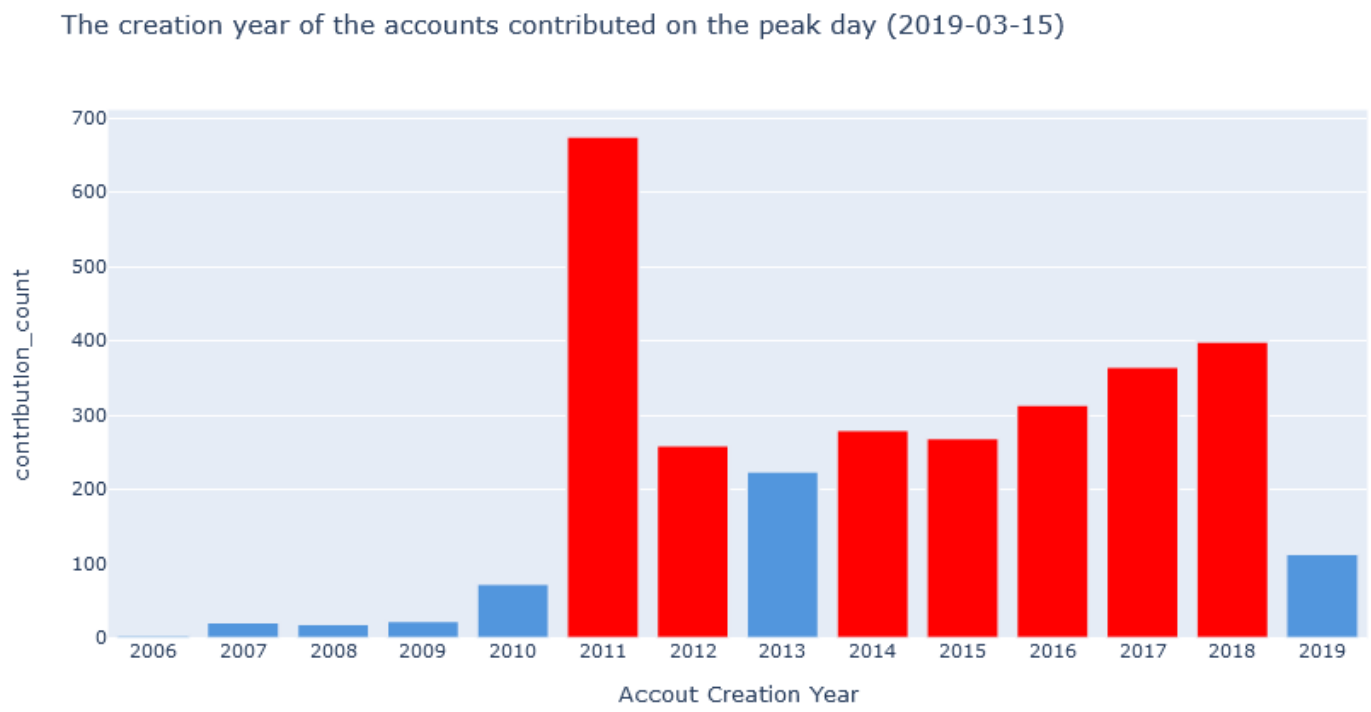
created_at	contribution_count
2019-03-15	3221
2019-03-14	1844
2019-03-13	1170
2019-03-16	818
2019-03-02	505

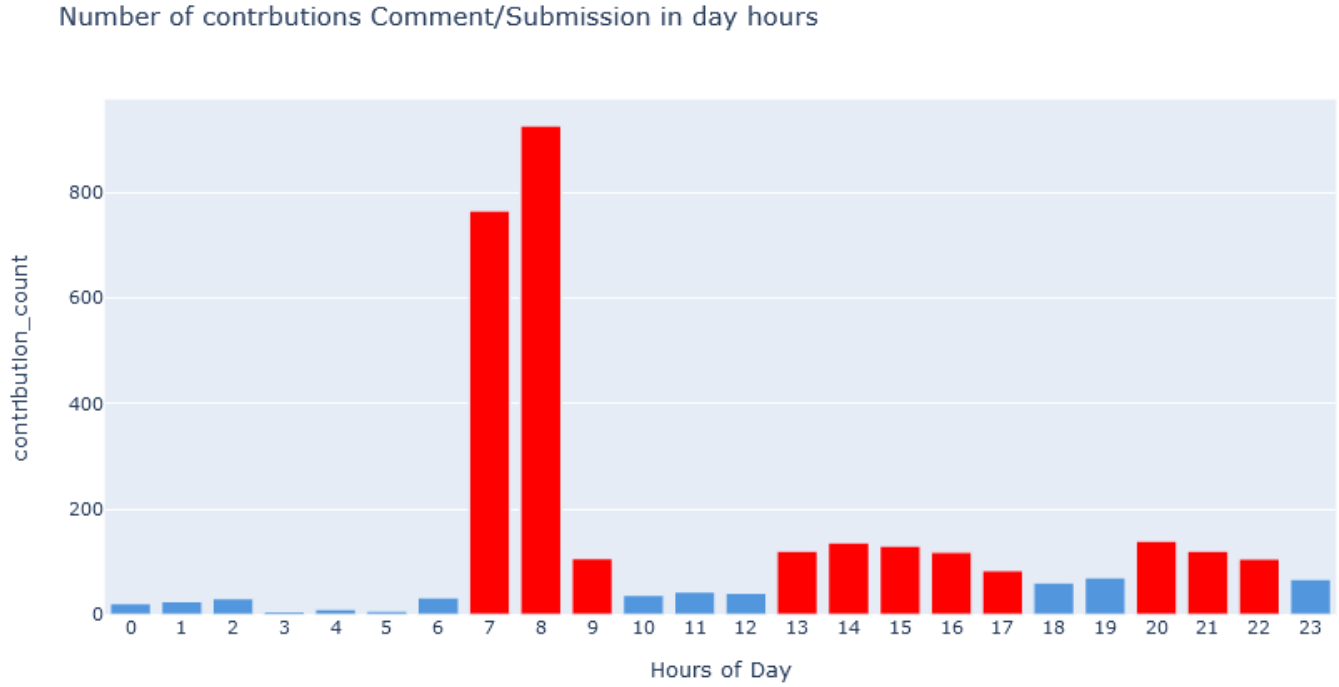




March 15,2019

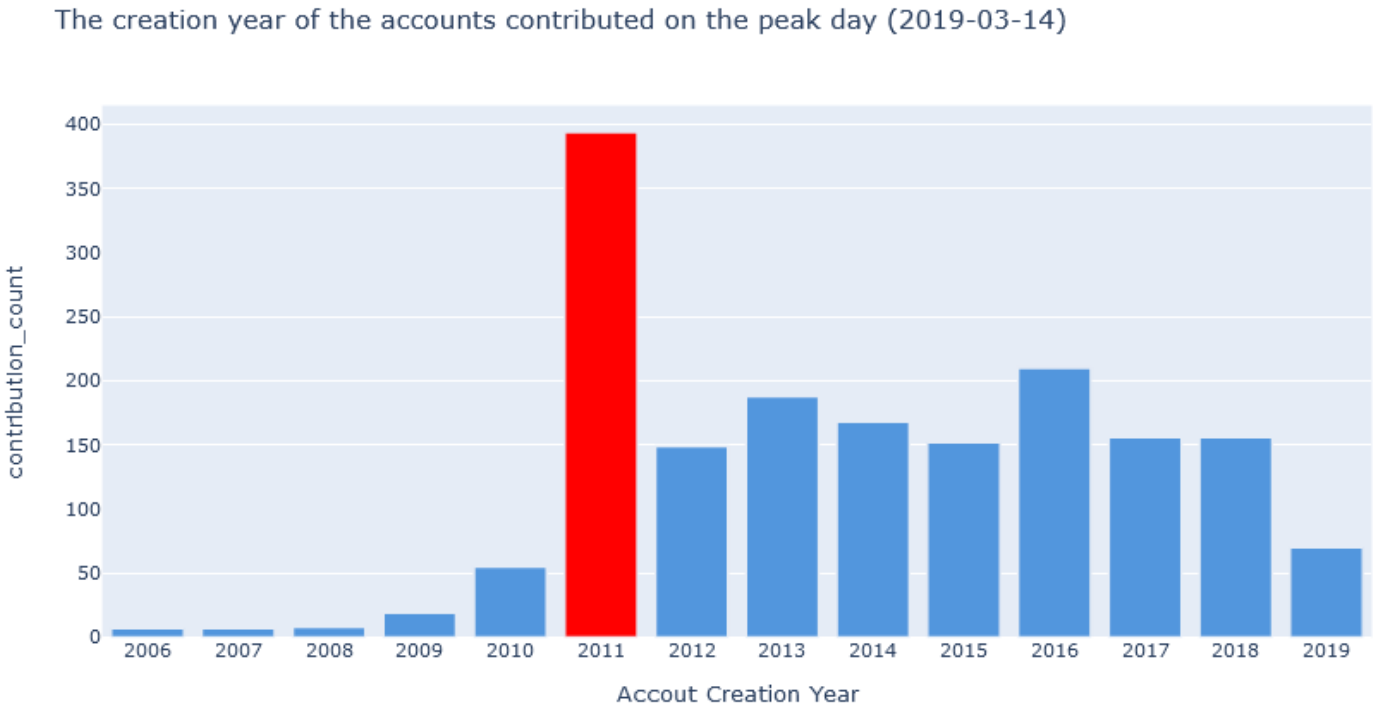
- **3221 contributions** were made by **1553 users**.

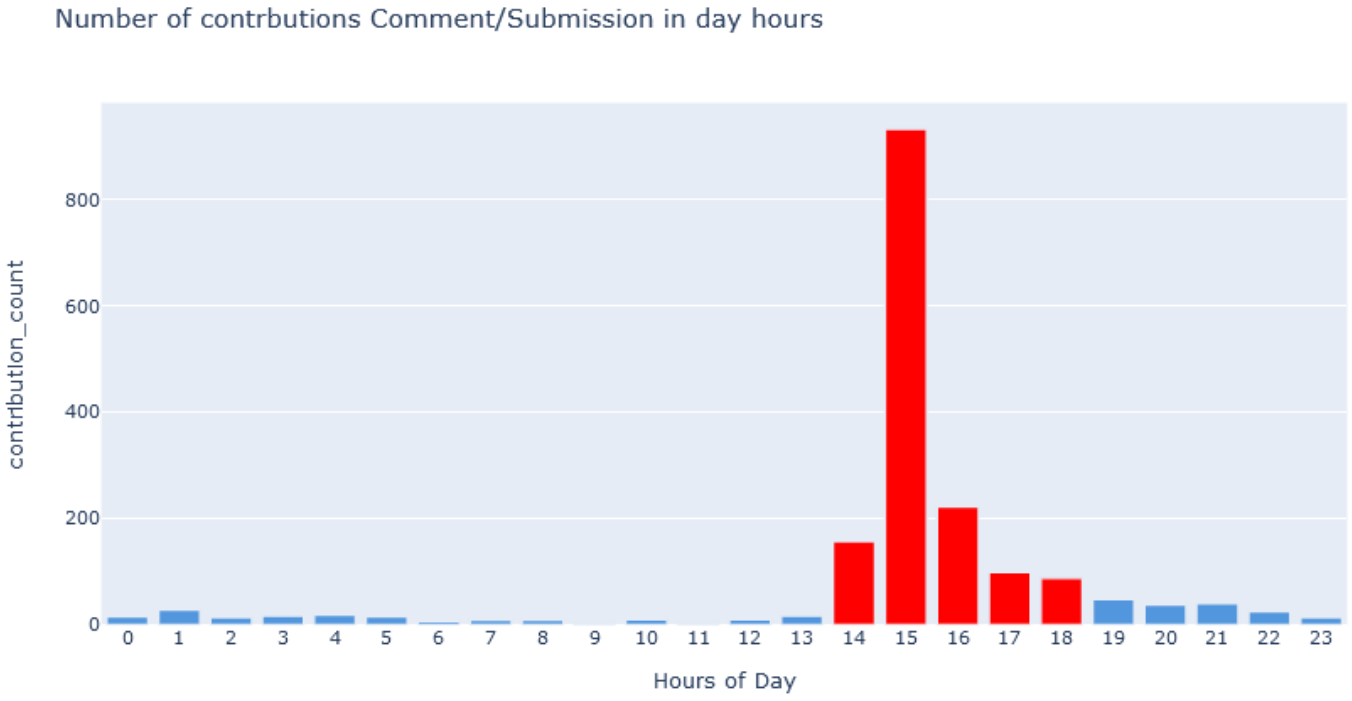




March 14,2019

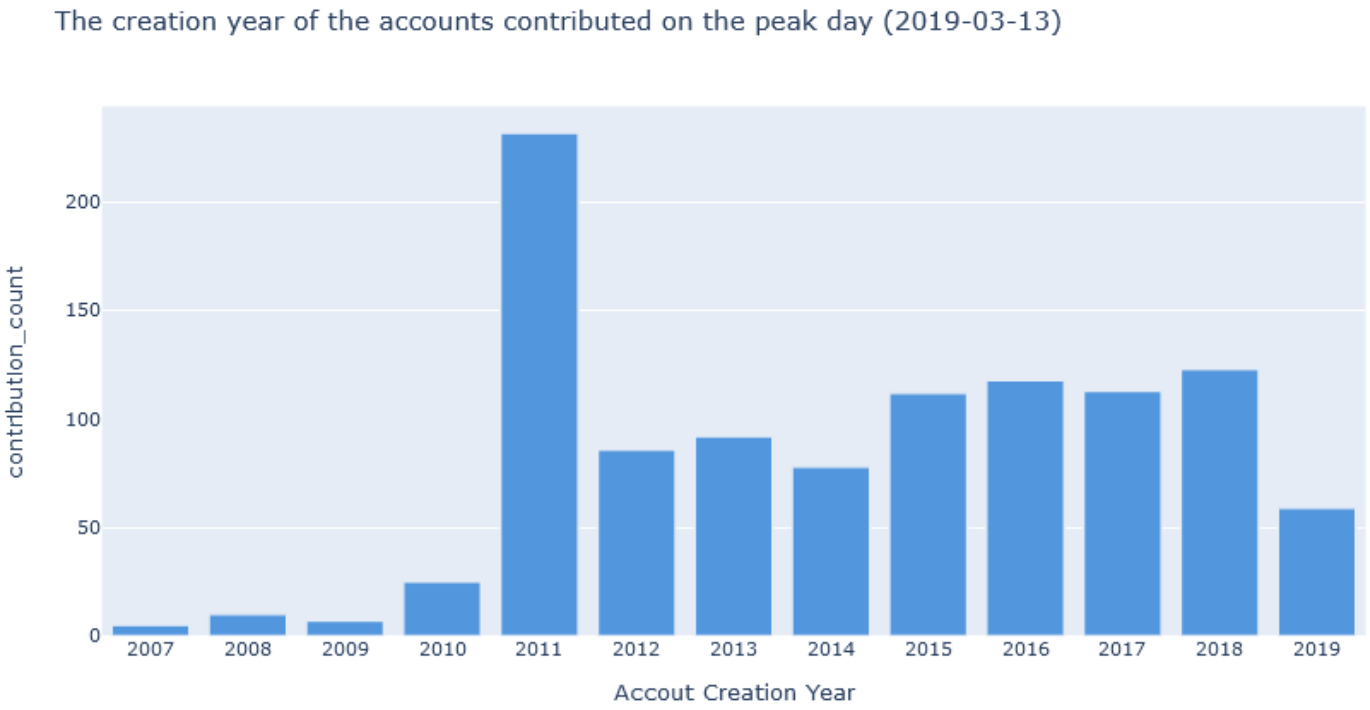
- **1844 contributions** were made by **893 users**.

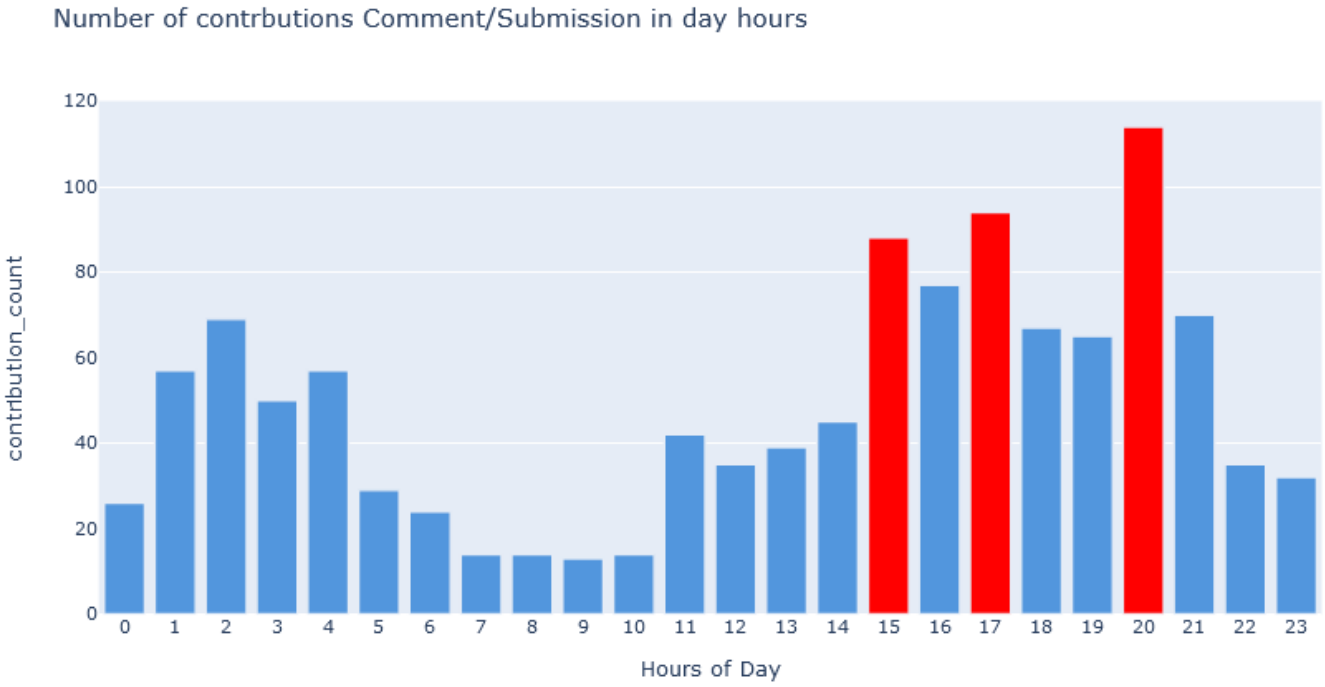




March 13,2019

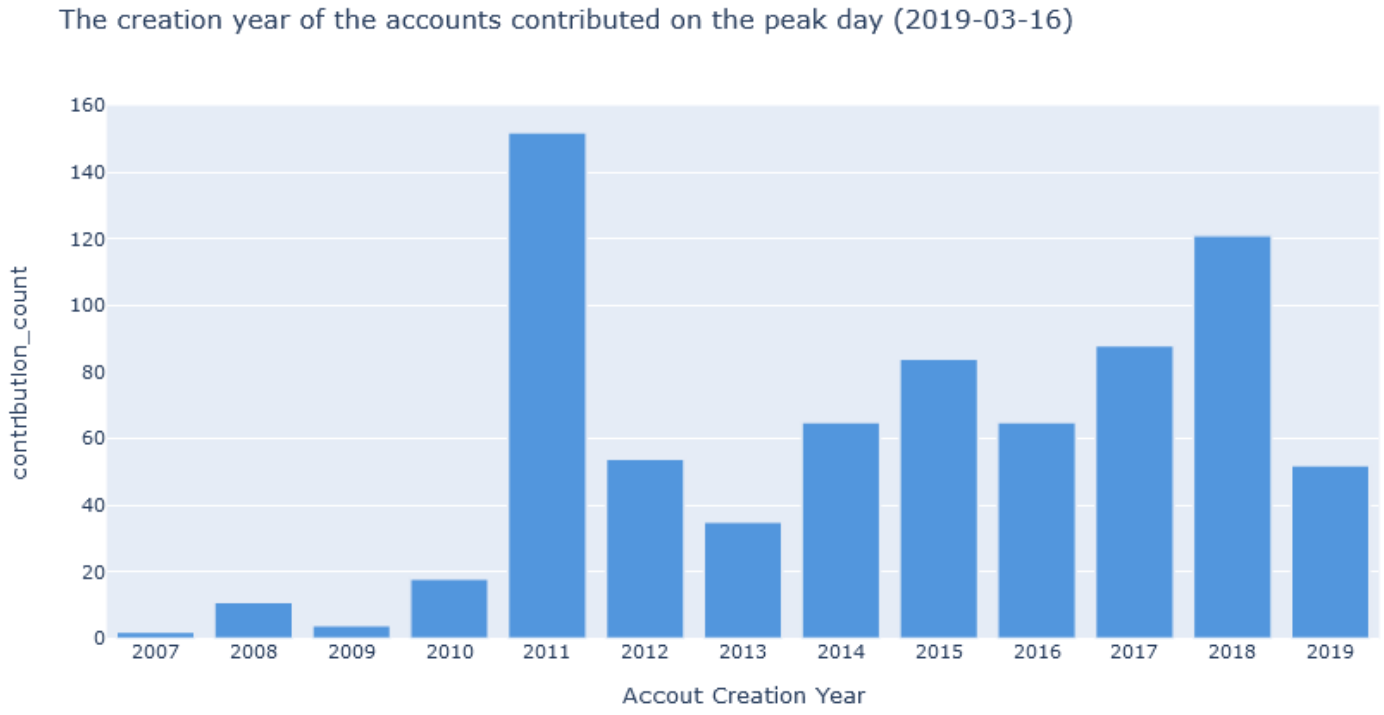
- **1170 contributions** were made by **536 users**.

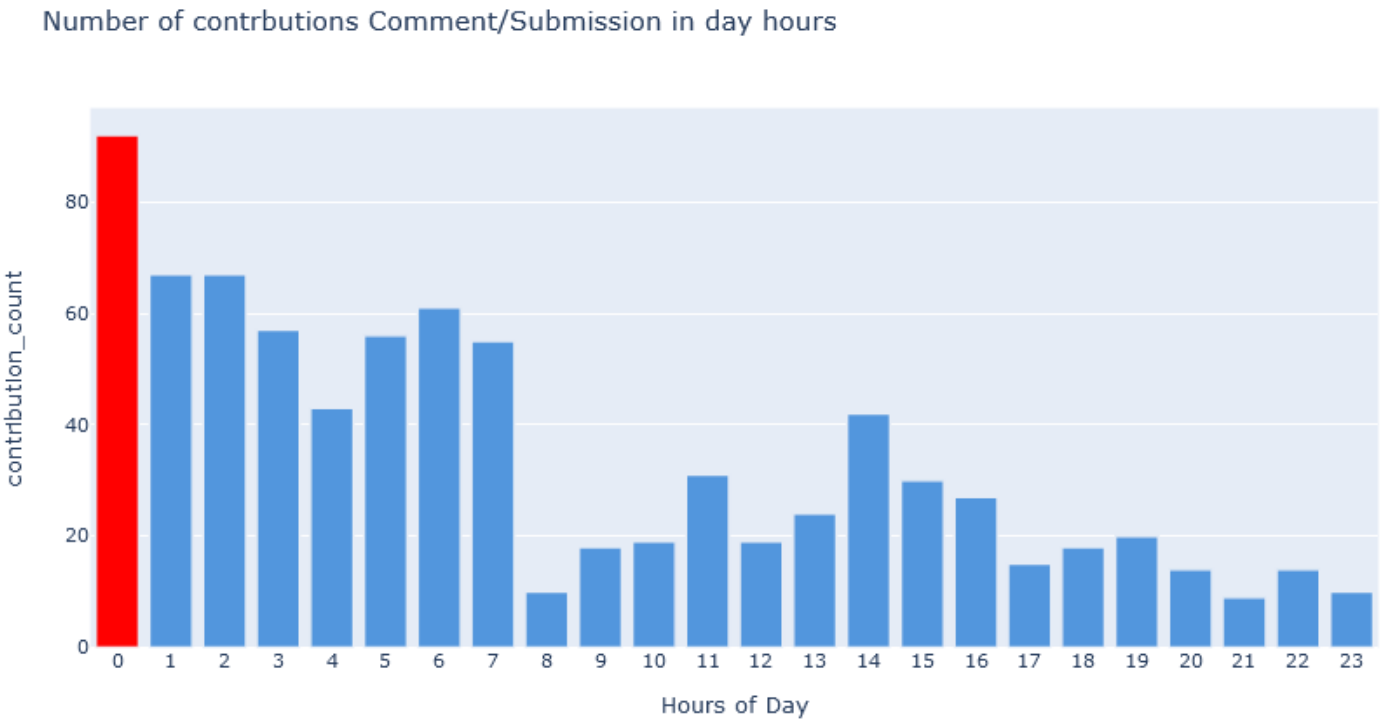




March 16,2019

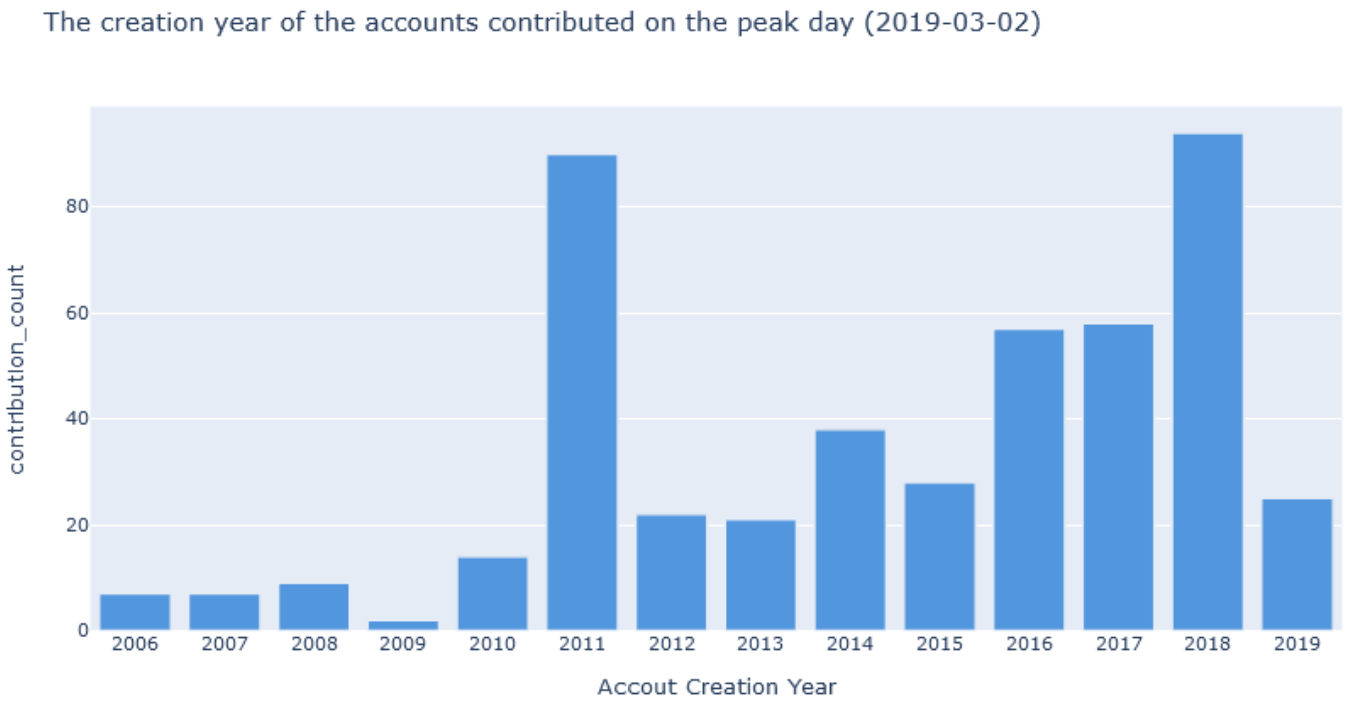
- **818 contributions** were made by **466 users**.

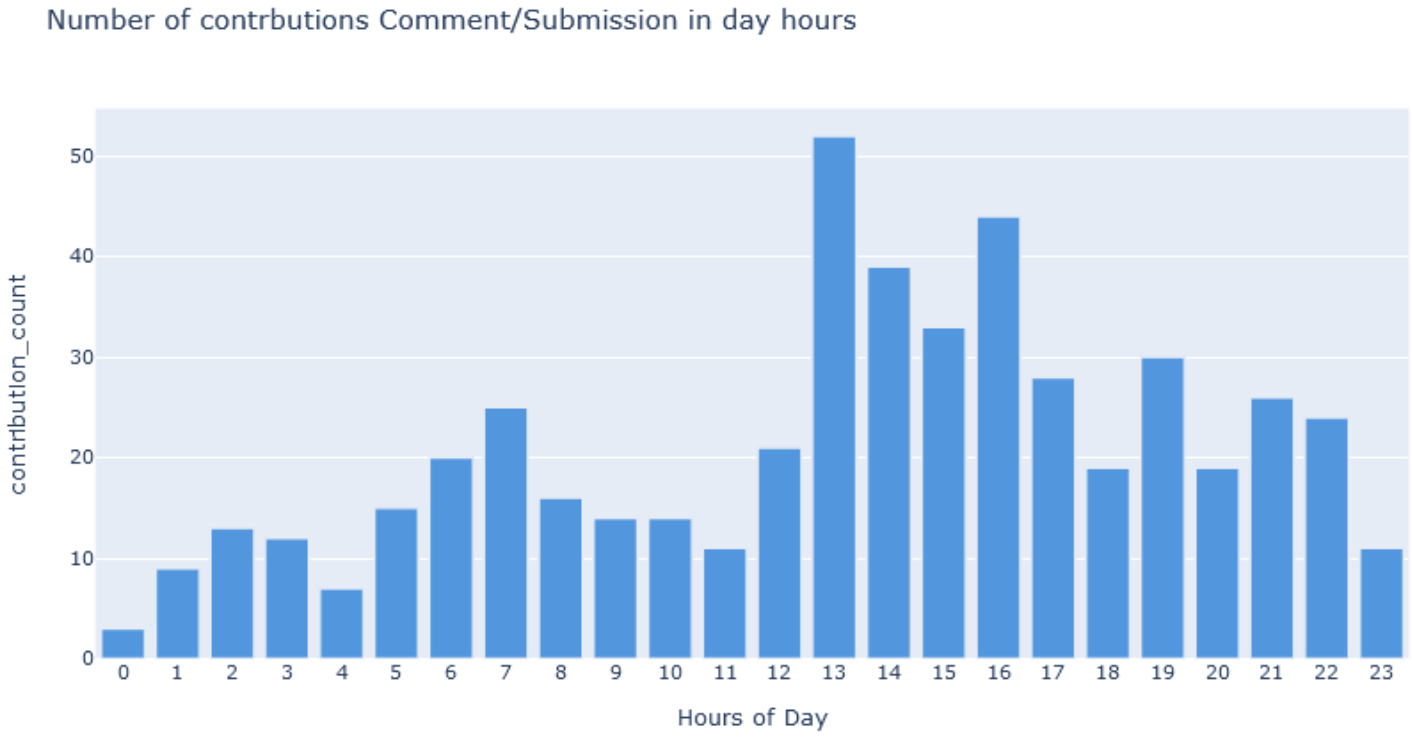




March 2,2019

- **505 contributions** were made by **275 users**.

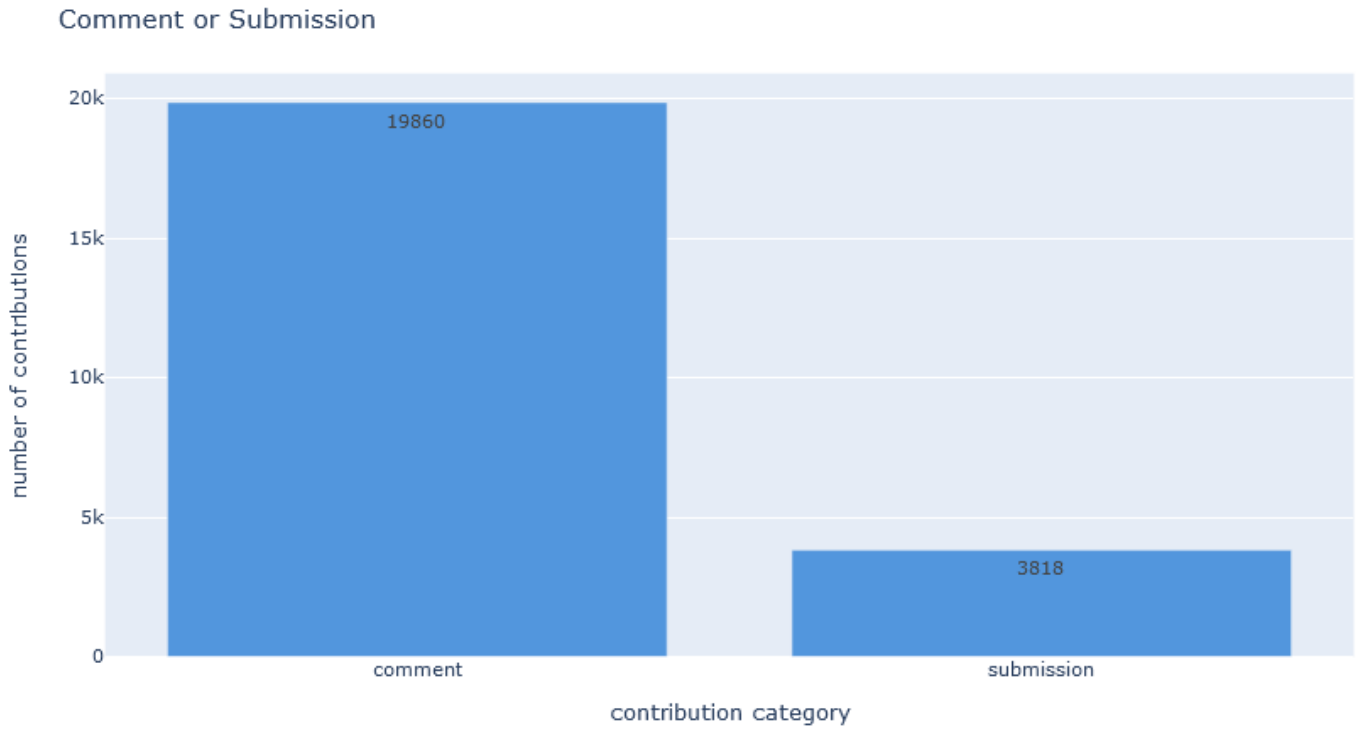


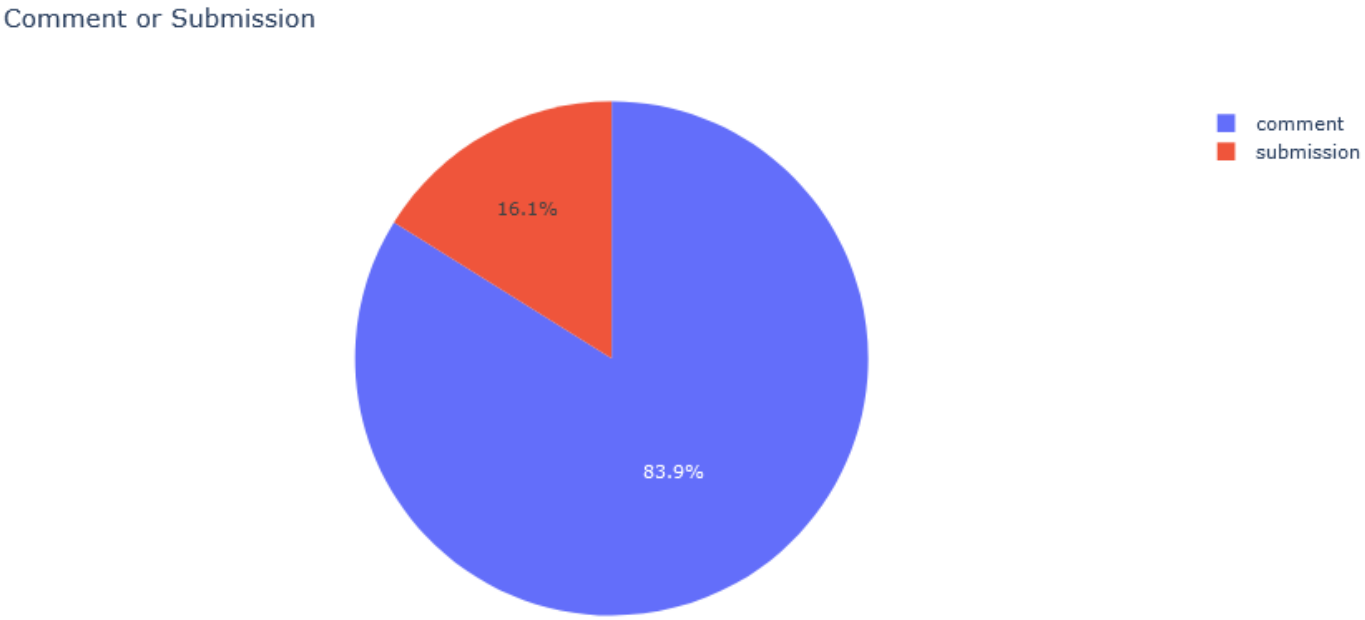


Exploratory Data Analysis

Reddit Contributions (Comments / Submissions)

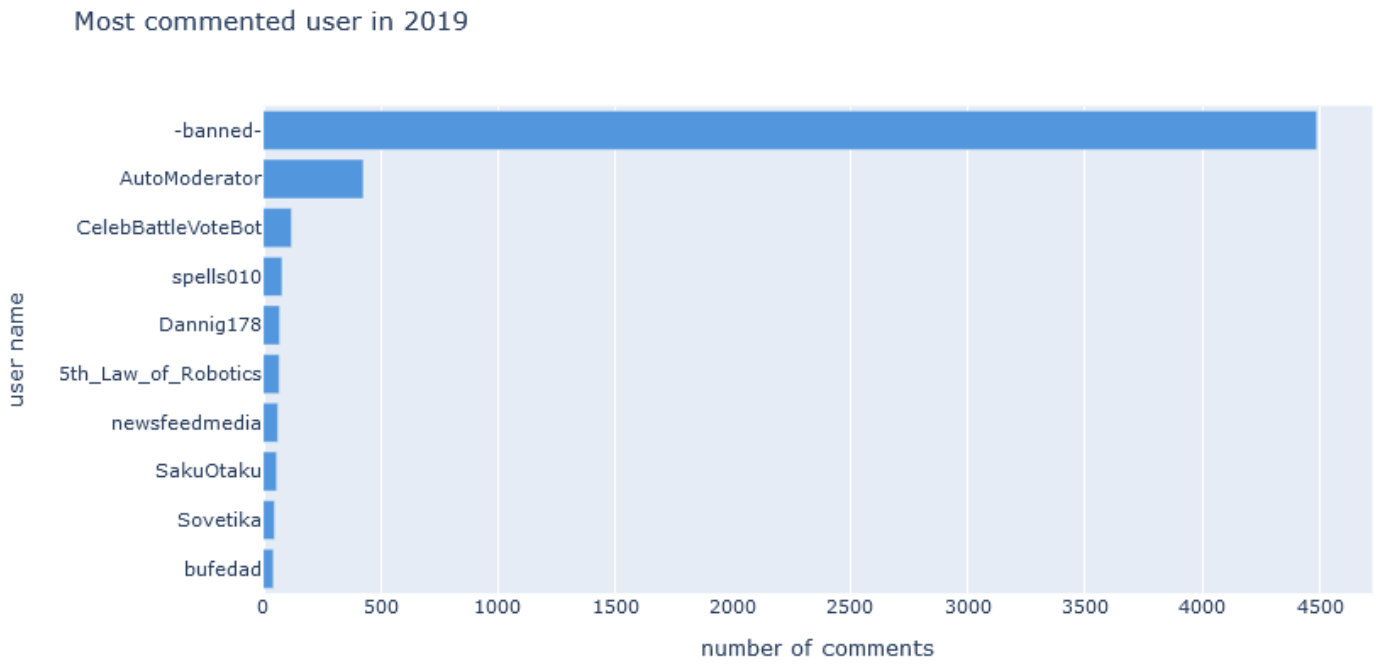
The # of submissions VS the # of comments





Most contributed user

	index	author
0	-banned-	4487
1	AutoModerator	426
2	CelebBattleVoteBot	120
3	spells010	80
4	Dannig178	70
5	5th_Law_of_Robotics	68
6	newsfeedmedia	62
7	SakuOtaku	57
8	Sovetika	48
9	bufedad	43



Further Investigate The Most Commented Users In 2019

AutoModerator

AutoModerais a system built into reddit that allows moderators to define "rules" (consisting of checks and actions) to be automatically applied to posts in their subreddit.

- **Automoderator** made **426 Comments in 2019** on those subreddits:
  - `r/JerkOffToCelebs` 189
  - `r/Celebhub` 102
  - `r/TrueFMK` 21
  - `r/OutOfTheLoop` 20
  - `r/CelebEconomy` 16
  - `r/DC_Cinematic` 12
  - `r/SexiestLeague` 5
  - `r/AskReddit` 5
  - `r/celebnsfw` 4
  - `r/unpopularopinion` 4

CelebBattleVoteBot

Voting bot.

- **CelebBattleVoteBot** made **120 Comments in 2019** on those subreddits:
  - r/CelebBattles 116
  - r/Celebhub 4

spells010

Bot

- **Spells010** made **80 submissions in 2019** on one subreddit **u/spells010 .**
  - r/JerkOffToCelebs 189
  - r/Celebhub 102
  - r/TrueFMK 21
  - r/OutOfTheLoop 20
  - r/CelebEconomy 16
  - r/DC_Cinematic 12
  - r/SexiestLeague 5
  - r/AskReddit 5
  - r/celebnsfw 4
  - r/unpopularopinion 4

This user made 80 submissions in only one subreddit (u/spells010) which is the same as his name! He is absolutely a bot, he is announcing a phone number (+91 9116496706).

Dannig178

- **Automoderator** made **70 contributions in 2019**
  - submission 67
  - comment 3
- on those subreddits:
  - r/celeb_nylons 7
  - r/celeb_underwear 7
  - r/celebheels 7
  - r/BralessCelebs 7
  - r/CelebritiesBarefoot 7
  - r/handbra 5
  - r/CelebrityButts 4
  - r/Celebs 4
  - r/CelebrityPokies 3
  - r/celebritylegs 3
- With those texts:
  - Amber Heard 67
  - Amber 1
  - FMK 1
  - /r/celeb_underwear 1

5th_Law_of_Robotics

Negative Submissions

- made **68 Contributions in 2019**
  - comment 62
  - submission 6
- on those subreddits:
  - r/WeinsteinEffect 39
  - r/MensRights 10
  - r/entertainment 7
  - r/Egalitarianism 7
  - r/Toxic_Femininity 3
  - r/RedditCensors 1
  - r/ProMaleCollective 1

	created_at	n_contributions
1	2019-03-13	36
2	2019-03-14	11
4	2019-03-24	7
9	2019-09-11	5
5	2019-03-26	3
0	2019-03-07	1
3	2019-03-23	1
6	2019-07-27	1
7	2019-07-30	1
8	2019-08-30	1
10	2019-09-12	1

Newsfeedmedia news bot

- made **62 submissions in 2019** on this subreddit **r/newsfeedmedia**

	created_at	n_contributions
15	2019-04-12	2
26	2019-05-13	2
51	2019-10-11	2
17	2019-04-14	2
30	2019-05-17	2
42	2019-08-16	1
32	2019-05-25	1
33	2019-05-26	1
34	2019-06-13	1
35	2019-07-02	1

SakuOtaku

- made **57 contributions in 2019**
  - comment 54
  - submission 3

on those subreddits:

- r/WeinsteinEffect 48
- r/GamerGhazi 4
- r/movies 4
- r/harrypotter 1

	created_at	n_contributions
2	2019-03-13	19
3	2019-03-14	15
8	2019-05-22	11
4	2019-03-16	4
0	2019-03-03	2
1	2019-03-04	2
5	2019-04-12	2
6	2019-04-13	1
7	2019-04-14	1

Sovetika

- made **48 submissions in 2019** on those subreddits:
  - r/STRANI 23
  - r/SOVETIKA 17
  - r/lukomorye 8

	created_at	n_contributions
6	2019-06-27	23
5	2019-05-04	17
1	2019-03-02	2
2	2019-03-03	2
4	2019-03-15	2
0	2019-02-23	1
3	2019-03-04	1

- text:

```
Amber Heard (z835)                                  1
Amber Heard (s386) | Sovetika.ru - знаменитости     1
Amber Heard (z1231)                                 1
Amber Heard (z1008)                                 1
Amber Heard (s379) | Sovetika.ru - знаменитости     1
Name: text, dtype: int64
```

Check whether the users with the most contributions are mod[5], gold[6] or having a verified email

- -banned- 4487
- AutoModerator 426
- CelebBattleVoteBot 120
- spells010 80
- Dannig178 70
- 5th_Law_of_Robotics 68
- newsfeedmedia 62
- SakuOtaku 57
- Sovetika 48
- bufedad 43
- DerHander 41
- RuleIV 40
- guac_boi1 36
- AutoNewsAdmin 36
- AutoNewspaperAdmin 34
- Pixelated_Piracy 34
- InfiniTitans 32
- sweetestdeth 30
- bitcoinwallpaper2 30
- majortom106 30
- juanathanluis 30
- Rednaxela117 28
- reignkaera 28
- GRJR721 26
- mtcapri 26

- A list with most 24 contributed authors was made.
- Checked for the most negative comments users.
- The most negatively commented users are
  '5th_Law_of_Robotics','AutoModerator','AutoNewsAdmin','AutoNewspaperAdmin',
  'CelebBattleVoteBot','Dannig178','DerHander','GRJR721','InfiniTitans',
  'Pixelated_Piracy','Rednaxela117','RuleIV','SakuOtaku','Sovetika',
  'bitcoinwallpaper2','bufedad','guac_boi1','juanathanluis','majortom106',
  'mtcapri','newsfeedmedia','reignkaera','spells010','sweetestdeth'

  - The value counts of the users with the most contributions: **has_verified_email**
  - True 24

  - The value counts of the users with the most contributions: **is_mod**
  - True 17
  - False 7

[5] Moderator: A moderator is just a regular redditor like you except with a few humble duties within a particular community
[6] Gold Reddit Gold was a premium membership, which allowed Reddit users a variety of additional features.

- The value counts of the users with the most contributions: **is_gold**
- False 20
- True 4

- The value counts of the users with the most contributions: **is_banned**
- False 23
- True 1

- **The min of comment_karma** 0.0
- **The max of comment_karma** 155384.0
- **The mean of comment_karma** 23995.83
- **The median of comment_karma** 23995.83
- **The min of link_karma** 1
- **The max of link_karma** 982410.0
- **The mean of link_karma** 133475.13
- **The median of link_karma** 133475.13

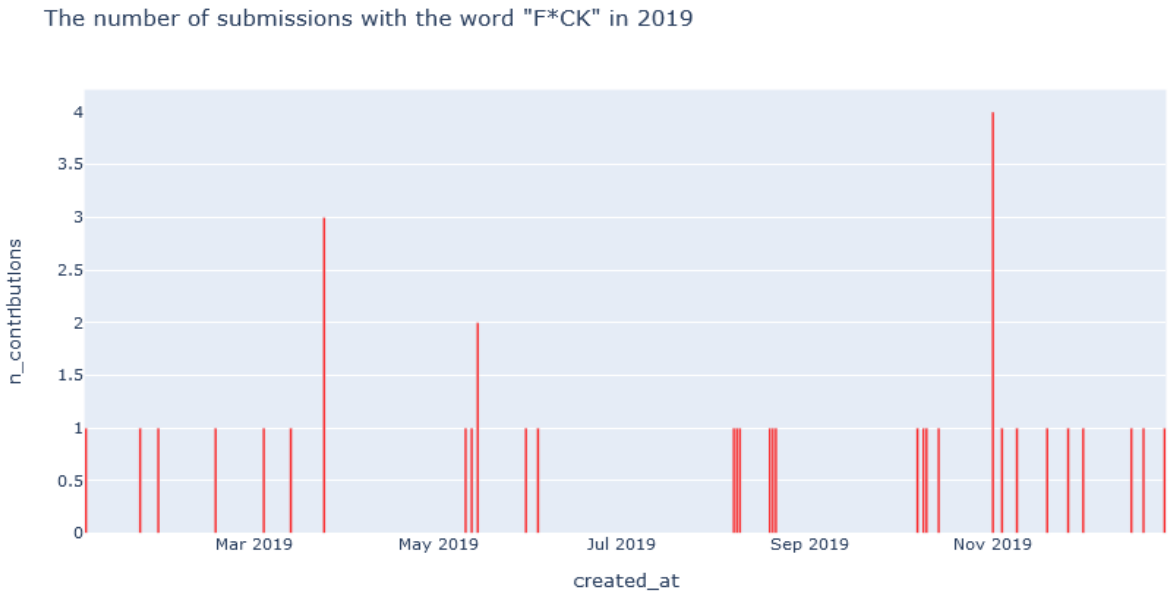
- The value counts of the users with the most contributions: **banned_unverified**
- others 23
- banned 1

- The value counts of the users with the most contributions: **creation_year**
- others 16
- 2019 4
- 2018 3
- banned 1

Investigate the text column

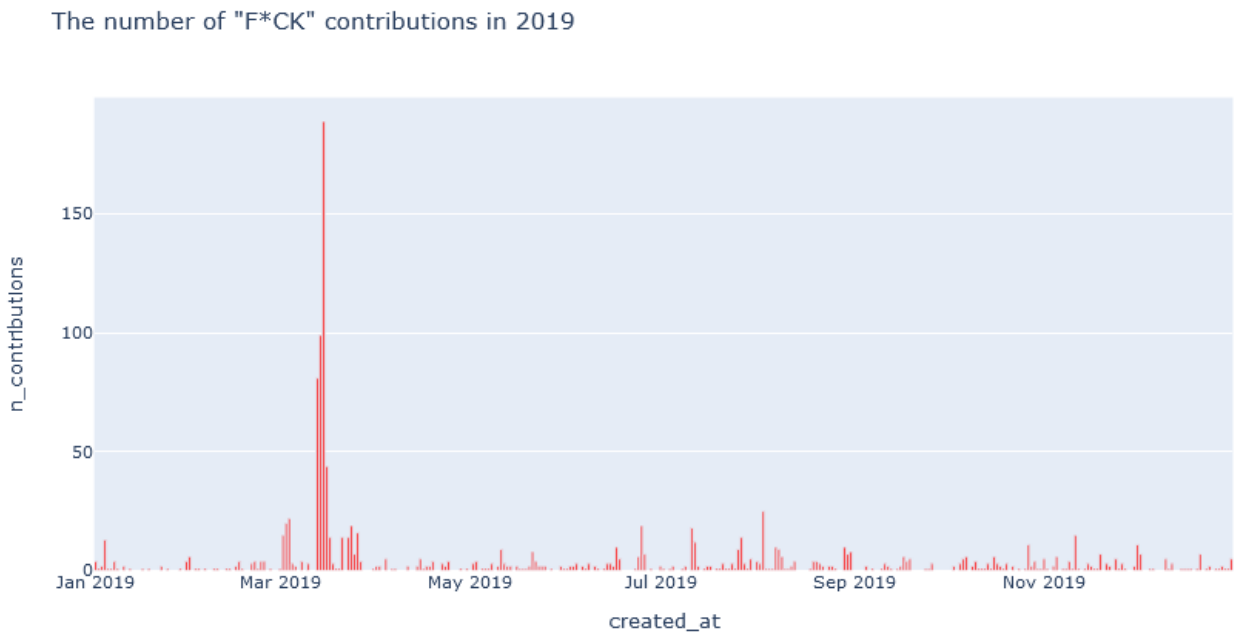
Lets first check for the users using the word 'f*ck

- This word is repeated 1254 times.
- 1 submission with f*ck_amber_heard, 37 submissions contains f*ck word.



- Top users contributor with this word:

    - -banned- 258
    - juanathanluis 11
    - armoured_bobandi 9
    - Ryggg95 7
    - SexBoi6969 6
    - pervaccount123 5
    - xRisingSunx 5
    - ForensicatingEdibles 5
    - flight fight1 5
    - funlover24 4
- Top subreddits:
    - r/movies 198
    - r/JerkOffToCelebs 185
    - r/CelebEconomy 140
    - r/entertainment 138
    - r/MensRights 82
    - r/pussypassdenied 61
    - r/worldnews 60
    - r/television 31
    - r/WatchItForThePlot 26
    - r/gentlemanboners 25
- Top dates:
    - 2019-03-15 189
    - 2019-03-14 99
    - 2019-03-13 81
    - 2019-03-16 44
    - 2019-08-03 25
    - 2019-03-04 22
    - 2019-03-03 20
    - 2019-06-25 19
    - 2019-03-24 19
    - 2019-07-11 18



Juanathanluis

used the word f*ck 11 times

Negative Comments

- Made 30 contributions in those subreddits
  - r/CelebEconomy 13
  - r/pickoneceleb 8
  - r/TrueFMK 7
  - r/CelebAssPussyMouth 1
  - r/JerkOffToCelebs 1

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
20670	juanathanluis	True	True	False	False	24502.0	92265.0	2015-12-05 21:18:19	others	others

---

Check the number of text words

```
Amber Heard
1832
[deleted]
645
[removed]
233
**Thank you for your submission. Make sure to follow the rules.**\n\n**Don't forget to follow us on [Instagr
am](https://www.instagram.com/jotocelebs/) and [join our Discord Server](https://discord.gg/PrRFWsa)!**\n\n\
n*I am a bot, and this action was performed automatically. Please [contact the moderators of this subreddi
t](/message/compose/?to=/r/JerkOffToCelebs) if you have any questions or concerns.*
64
Remember to keep comments civil.\n\n**[Follow our Instagram page](https://www.instagram.com/celebtag/) for m
ore celebrity content and daily top posts!**\n\n\n*I am a bot, and this action was performed automatically.
Please [contact the moderators of this subreddit](/message/compose/?to=/r/Celebhub) if you have any question
s or concerns.*
59
**Thank you for your submission. Make sure to follow the rules.**\n\n**Check out our [FAP LOTTERY!](https://
jerkofftocelebs.com/)**\n\n**Don't forget to follow us on [Instagram](https://www.instagram.com/jotocelebs/)
and [join our Discord Server](https://discord.gg/PrRFWsa)!**\n\n\n*I am a bot, and this action was performed
```

- Most contributions were deleted.
- The other contribution has 'Amber Heard' which is logical.
- FMK, FKM, MFK, KFM repeated a lot!
- There are a lot of weird texts repeated a lot like:
  - FMK.
  - FKM.
  - MFK.
  - KFM.

Amber Heard

- **4641 contributions** on **those subreddits:**
  - r/Celebs 532
  - r/gentlemanboners 317
  - r/JerkOffToCelebs 271
  - r/Celebhub 222
  - r/CelebBattles 140
  - ...

  From those **authors:**

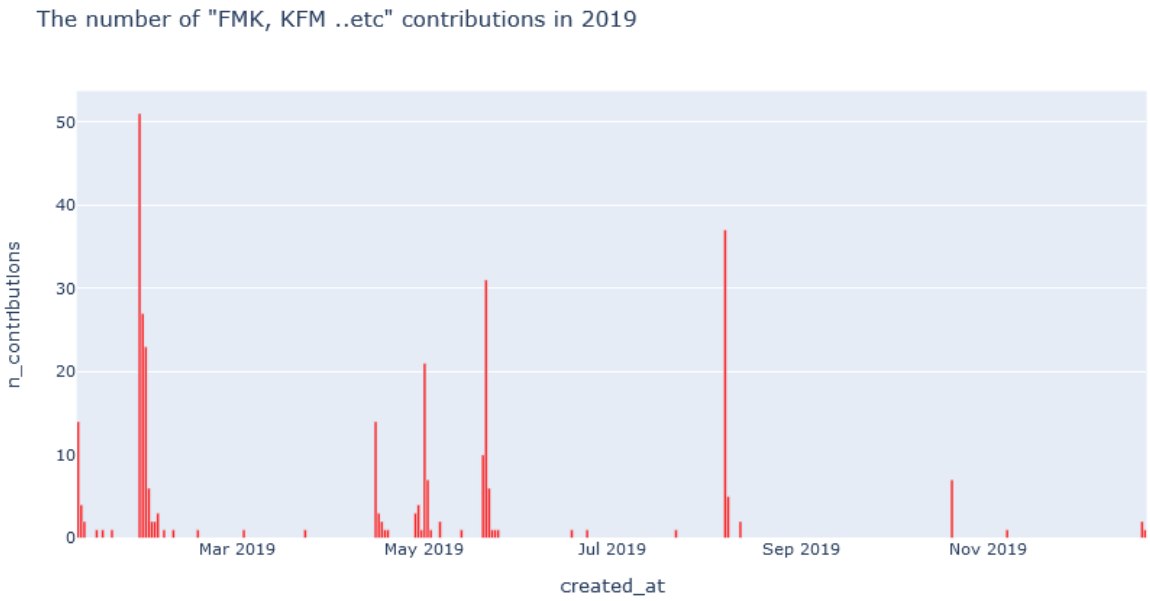
  - -banned- 1396
  - spells010 80
  - Dannig178 67
  - newsfeedmedia 62
  - CelebBattleVoteBot 55
  - Sovetika 48
  - AutoNewsAdmin 36
  - AutoNewspaperAdmin 34
  - DerHander 30
  - bitcoinwallpaper2 30

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
13888	Dannig178	True	True	True	False	2765.0	982410.0	2014-05-14 14:35:40	others	others
50713	spells010	True	False	False	False	0.0	1.0	2019-07-31 04:00:33	others	2019

FMK, FKM, MFK, KFM

- **311 contributions** on **those subreddits:**
  - -banned- 23
  - AutoModerator 21
  - FMKBot 11
  - naedthrowaway 6
  - throwedrollss 6
  - billysuperduper 6
  - PM_ME_UR_PIG-TAILS 5
  - Narfle_TheGarthok 5
  - MerlinRD 5
  - herkalurk 5
  - ...

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
4432	AutoModerator	True	True	True	False	1000.0	1000.0	2012-01-05 05:24:28	others	others
32799	FMKBot	True	True	False	False	59182.0	1.0	2017-11-09 15:49:31	others	others



F*ck amber heard

- **32 contributions** on **those subreddits:**
  - r/JerkOffToCelebs 11
  - r/movies 5
  - r/MensRights 4
  - r/nsfwcelebs 2
  - r/television 2
  - ...

  From those **authors:**

  - -banned- 10
  - ADM86 2
  - RossSkyWalkerr 2
  - ...

[Aquaman] Amber Heard

- **115 contributions** on **those subreddits:**
  - r/BitcoinWallpaper 44
  - r/EcuadorNoticias 11
  - r/JerkOffToCelebs 6
  - r/movies 6
  - r/AskReddit 5
  - r/DC_Cinematic 5
  - r/gentlemanboners 4
  - r/entertainment 4
  - r/television 3
  - r/TwoXChromosomes 2
  - ...

From those **authors:**

- bitcoinwallpaper2 26
- -banned- 14
- spastorm20 11
- bitcoinwallpaper 10
- bitcoinwallpaper3 7
- i_am_leatherface 3
- bufedad 3
- Ximienlum 1
- NorseGodLoki0411 1
- xrnzaaasPL 1

r/BitcoinWallpaper top subreddit with 44 contributions form 115

bitcoinwallpaper2 this user made 26 submissions with the same text **[Aquaman] Amber Heard on those dates**

- 2019-10-24 6
- 2019-10-15 6
- 2019-10-19 6
- 2019-10-22 6
- 2019-10-12 1
- 2019-10-14 1

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
bitcoinwallpaper2	True	True	False	False	0.0	14.0	2019-10-11 19:30:50	others	2019

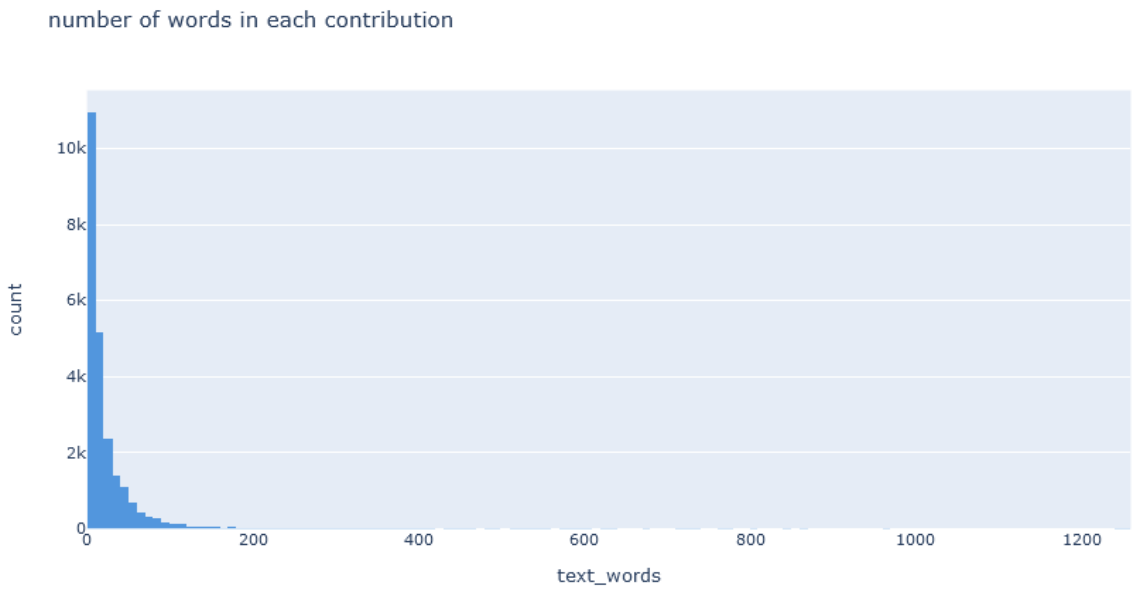
Johnny Depp was abused by ex-wife Amber Heard, new evidence shows

- **154 contributions.**

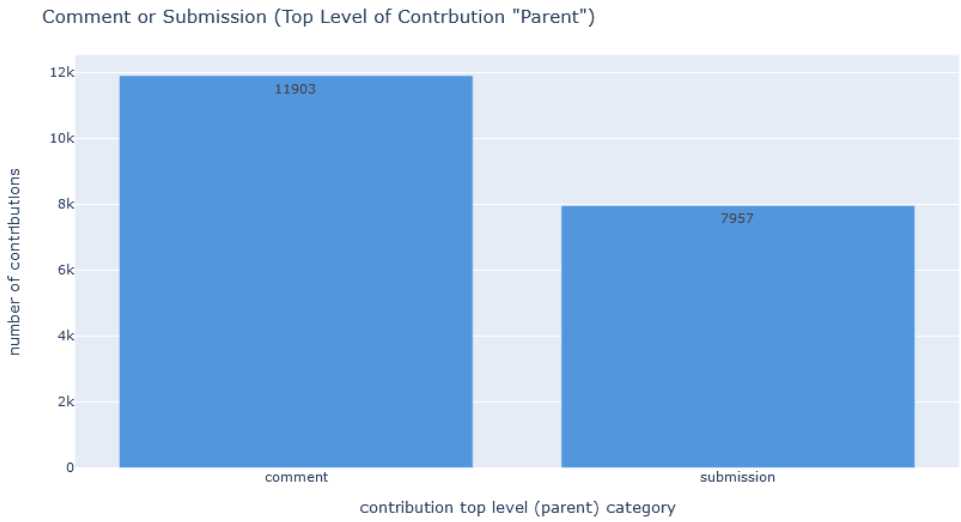
What did she hear?

- **3 contributions.**
- Authors:
  - -TheExtraMile- 1
  - cuacuacuac 1
  - mattreyu 1
- Subreddits:
  - r/goddesses 1
  - r/celebnsfw 1
  - r/geekboners 1

Check the number of text words



Reddit Comments



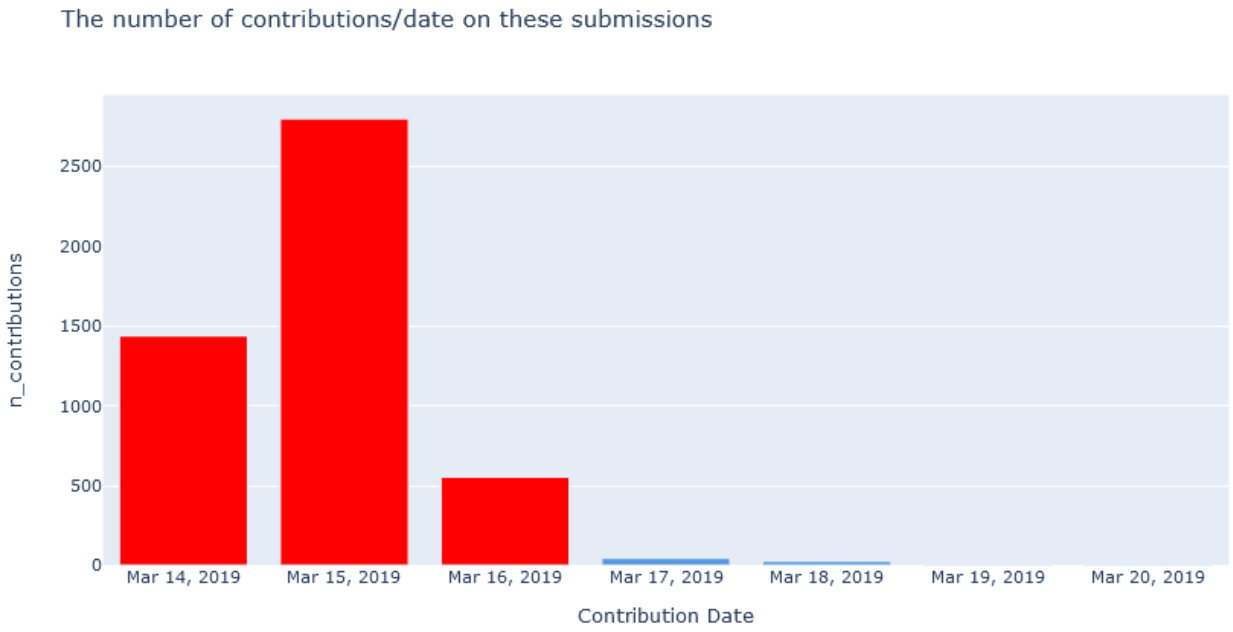
Reddit Submission Data

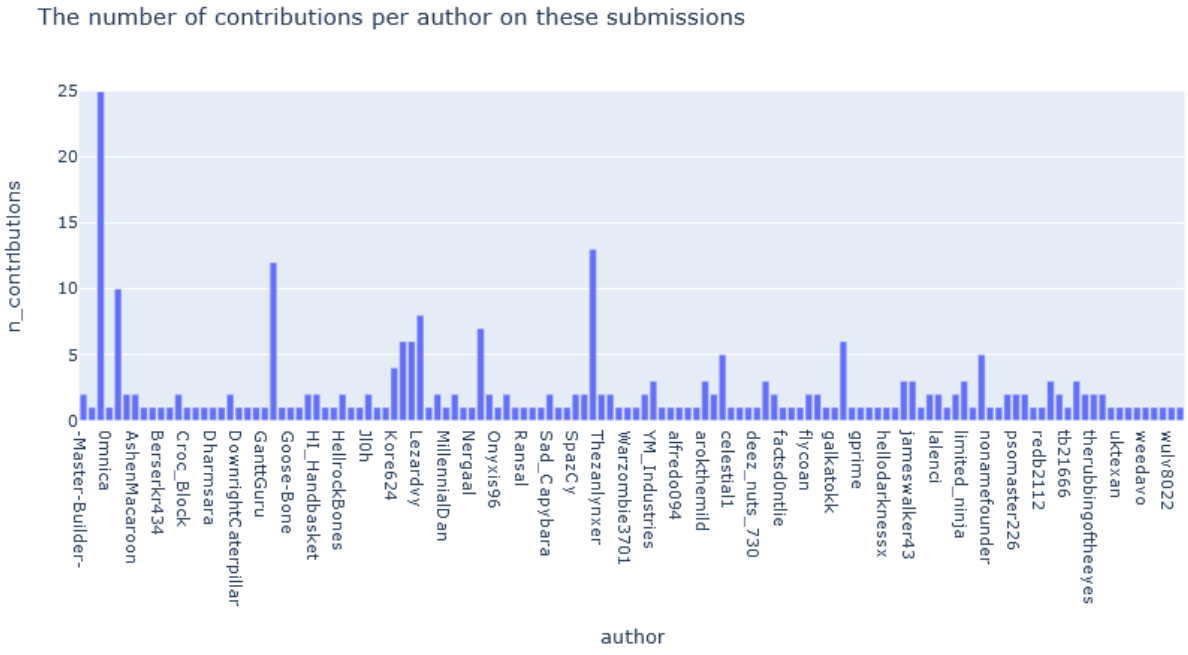
Investigating the Submission Text (Submissions with the most comments and replies)

-	johnny_depp_was_abused_by_exwife_amber_heard_new	4958
-	amber_heard	4308
-	DC_Cinematic	784
-	johnny_depp_files_50_million_defamation_lawsuit	652
-	report_james_marsden_amber_heard_in_negotiations	469
-	the_naked_truth_about_johnny_depp_case_and_what	417
-	johnny_depps_50m_defamation_suit_against_amber	401
-	johnny_depp_fans_are_pushing_hard_to_get_amber	319
-	johnny_depp_files_new_legal_docs_claiming_proof	293
-	petition_to_remove_accused_dv_perpetrator_amber	282

Johnny_depp_was_abused_by_exwife_amber_heard_new

- 34 submissions with 4958 comments.

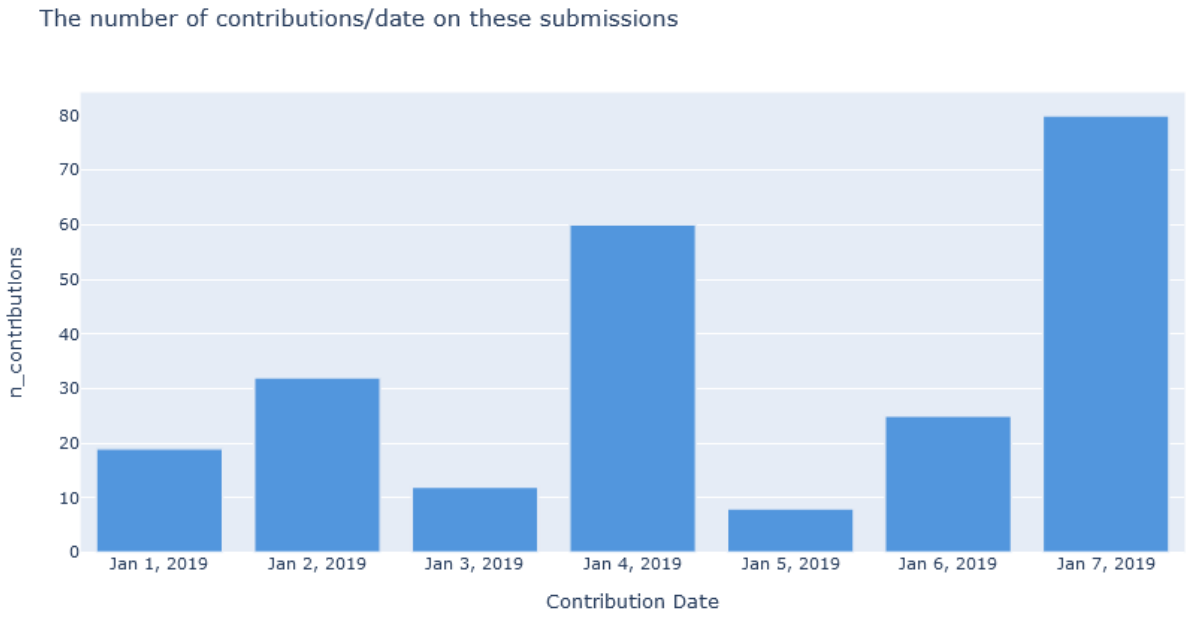




user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Pixelated_Piracy	True	False	False	False	25092.0	257.0	2014-04-25 07:16:31	others	others
guac_boi1	True	False	False	False	56749.0	6786.0	2017-01-09 23:31:59	others	others
majortom106	True	False	False	False	26689.0	8313.0	2017-01-22 22:02:53	others	others

amber_heard

- 1717 submissions with 4308 comments.

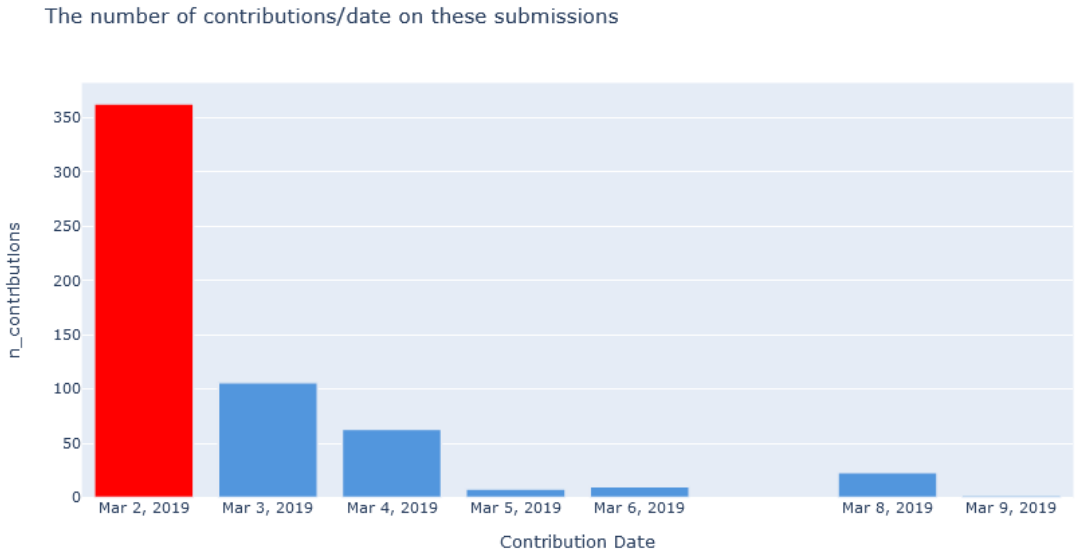


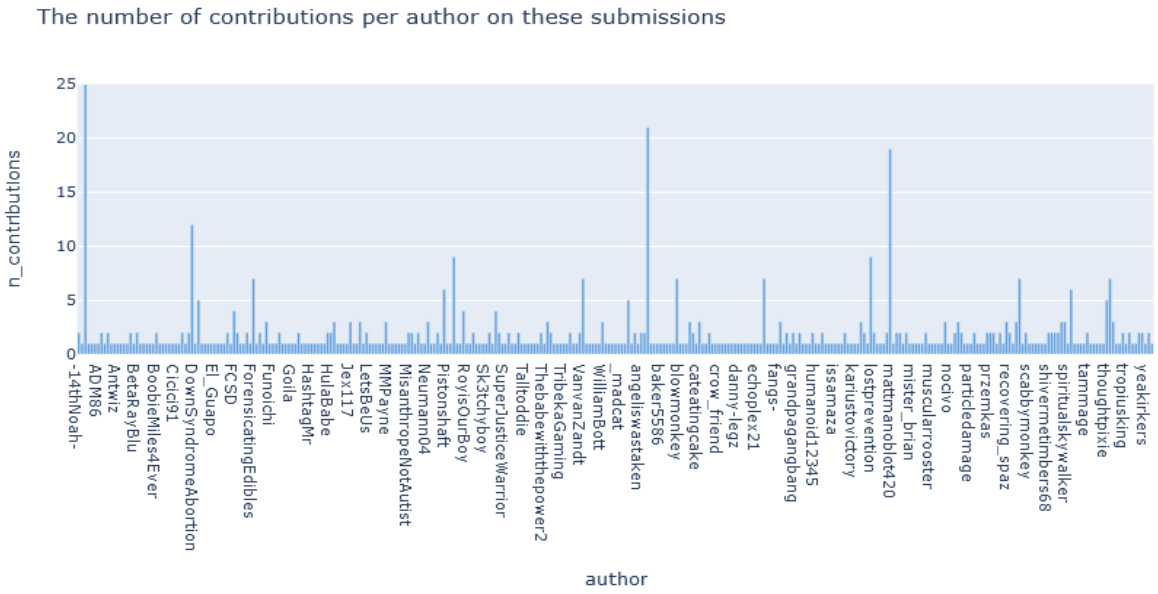
author	n_contributions
-banned-	1066
AutoModerator	116
Dannig178	47
RuleIV	39
DerHander	30
Rednaxela117	28
InfiniTitans	26
imsrikant	20
emilyguy	20
Queen1110	19

	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
4432	AutoModerator	True	True	True	False	1000.0	1000.0	2012-01-05 05:24:28	others	others
13888	Dannig178	True	True	True	False	2765.0	982410.0	2014-05-14 14:35:40	others	others
16497	RuleIV	True	True	False	False	12457.0	860.0	2014-12-21 09:43:04	others	others

johnny_depp_files_50_million_defamation_lawsuit

- 10 submissions with 652 comments.



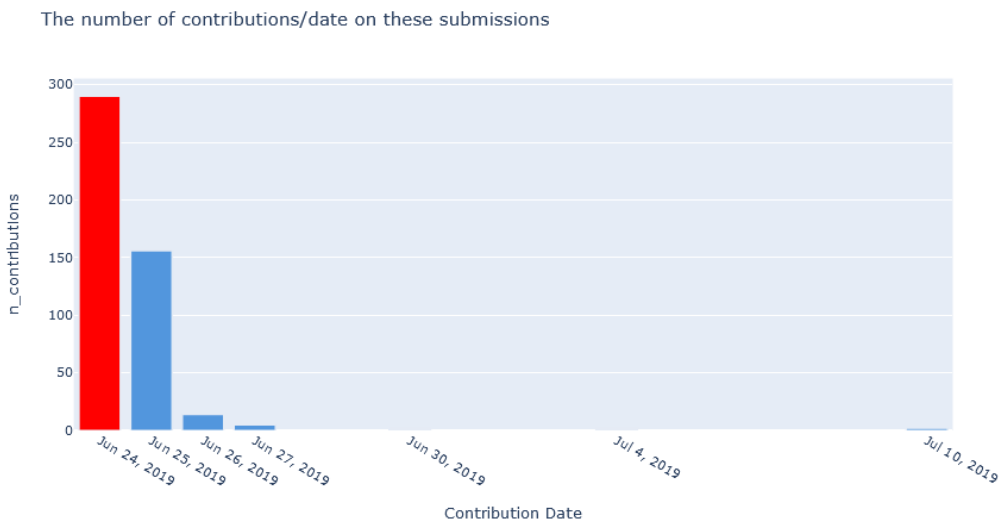


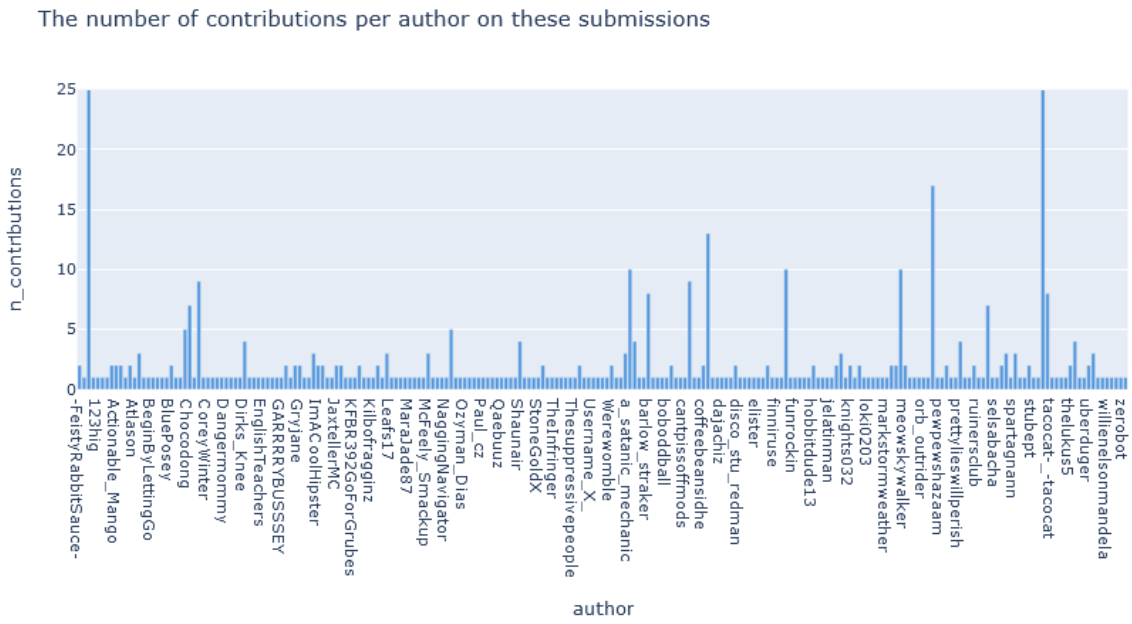
author	n_contributions
-banned-	83
armoured_bobandi	21
masksnjunk	19
Doctah__Wahwee	12

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
masksnjunk	True	False	False	False	21553.0	12571.0	2013-10-27 17:21:08	others	others
Doctah__Wahwee	True	False	False	False	88115.0	663.0	2016-01-31 19:20:36	others	others
armoured_bobandi	True	False	False	False	74298.0	844.0	2016-06-01 23:45:20	others	others

johnny_depp_files_50_million_defamation_lawsuit

- 2 submissions with 469 comments.



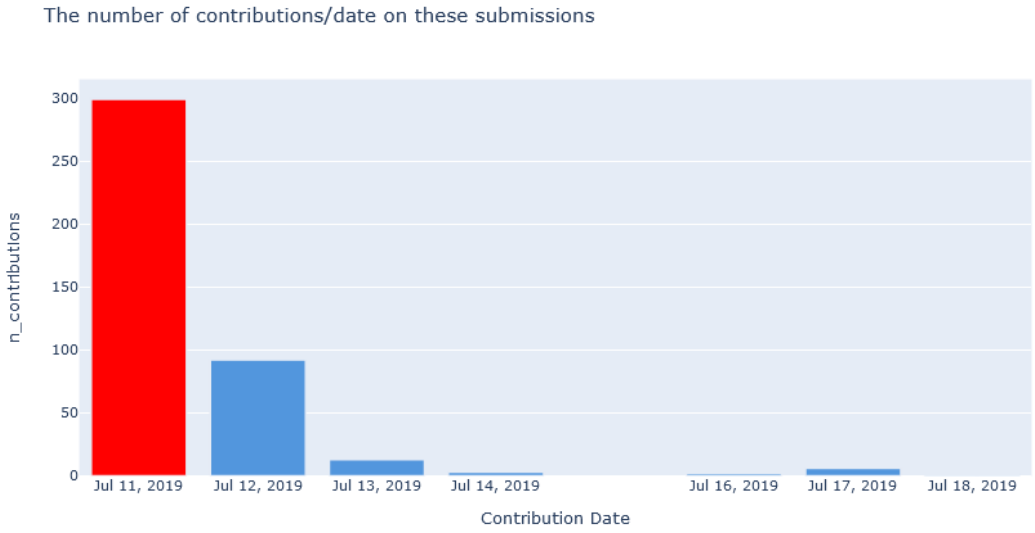


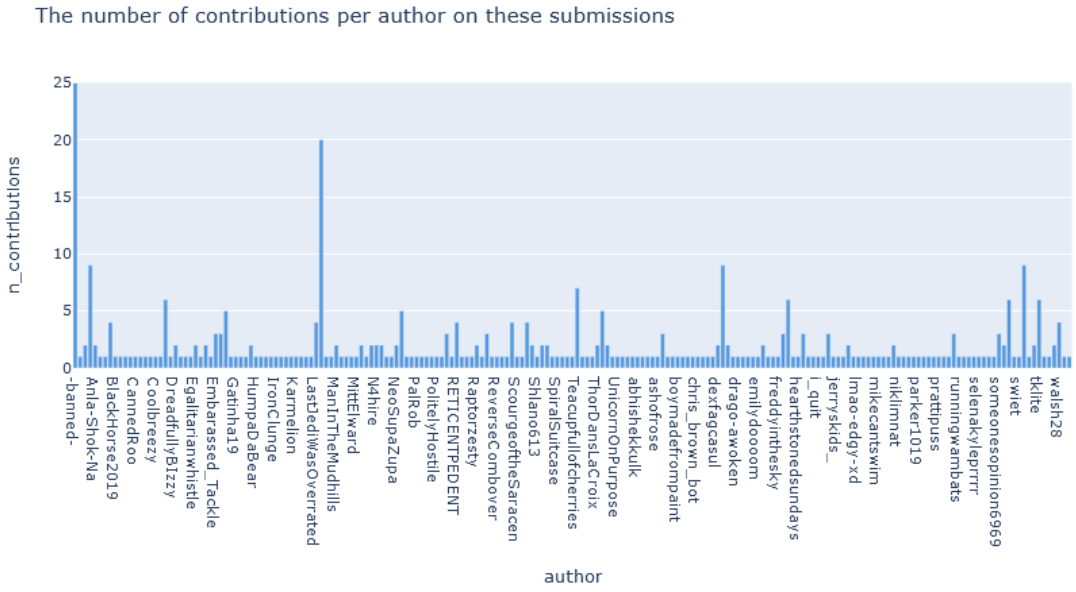
author	n_contributions
-banned-	39
sweetestdeth	30
paperbackgarbage	17

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
paperbackgarbage	True	False	False	False	199220.0	3282.0	2014-11-12 23:37:57	others	others
col-fancypants	True	True	False	False	290619.0	16547.0	2014-12-16 21:35:57	others	others
sweetestdeth	True	False	False	False	33784.0	39792.0	2016-08-21 19:54:58	others	others

The_naked_truth_about_johnny_depp_case_and_what

- 2 submissions with 417 comments.





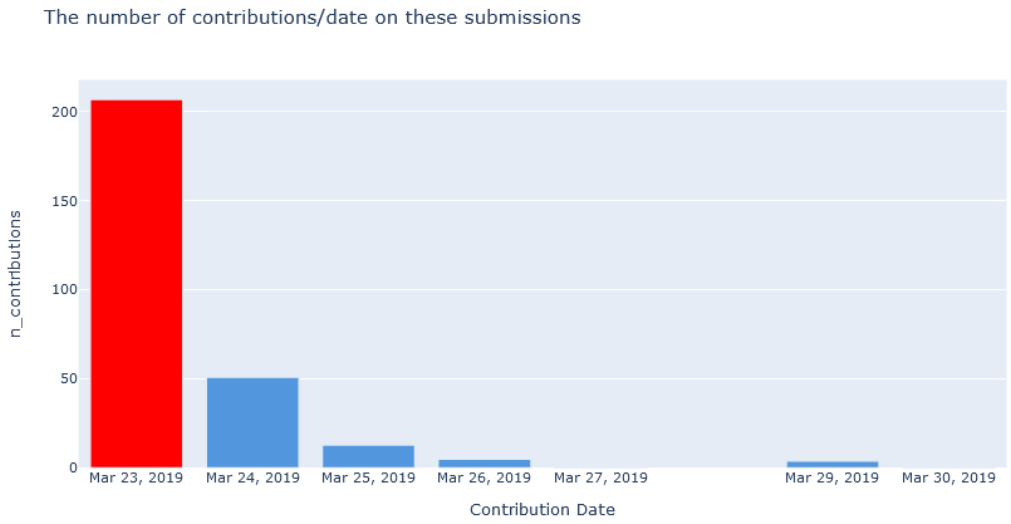
author	n_contributions
-banned-	74
Lily_Roza	20

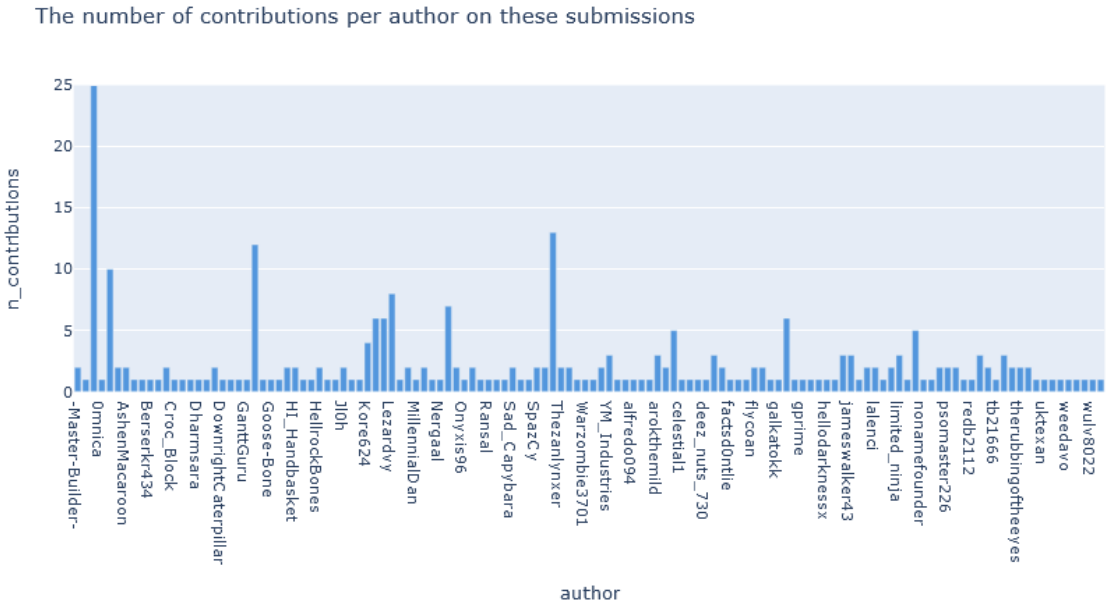
user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
swiet	True	False	False	False	8739.0	1208944.0	2016-07-03 11:18:49	others	others
reeeren	False	False	False	False	933.0	34090.0	2018-10-29 08:29:00	unverified	2018

user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Lily_Roza	True	False	False	False	47951.0	202.0	2016-03-08 16:25:41	others	others

petition_to_remove_accused_dv_perpetrator_amber

- 4 submissions with 282 comments.



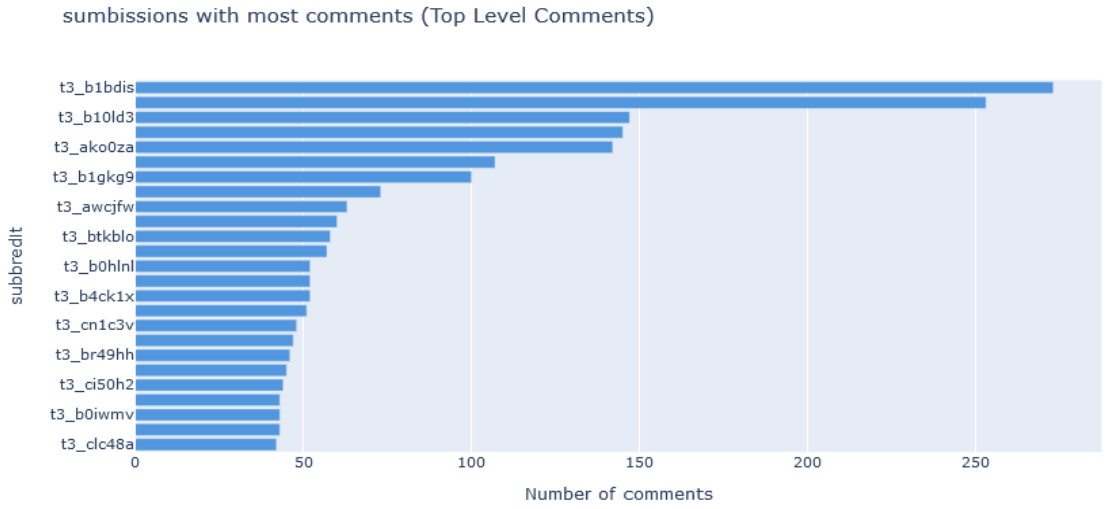


author	n_contributions
-banned-	35
ThePigmanAgain	13
Gingerchaun	12
5th_Law_of_Robotics	10

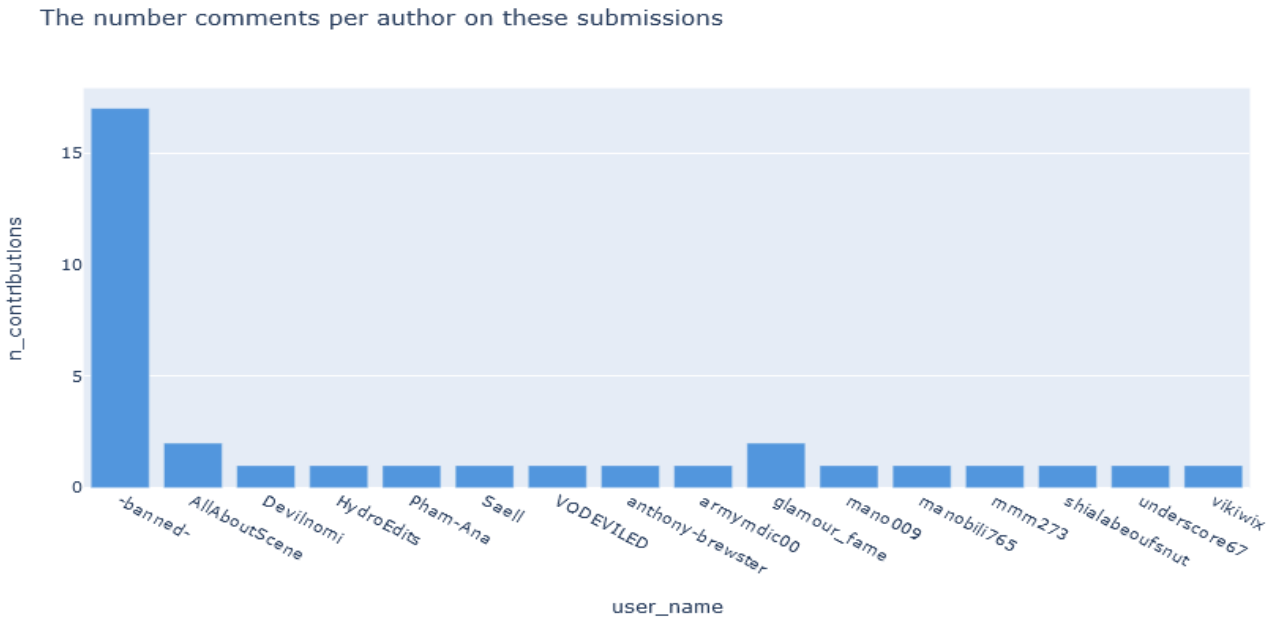
user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
ThePigmanAgain	True	False	False	False	72060.0	84908.0	2013-09-07 00:25:23	others	others
Gingerchaun	True	False	False	False	153991.0	1.0	2014-04-27 03:23:25	others	others
5th_Law_of_Robotics	True	True	True	True	NaN	NaN	NaT	banned	banned

Investigating the submissions with most comments

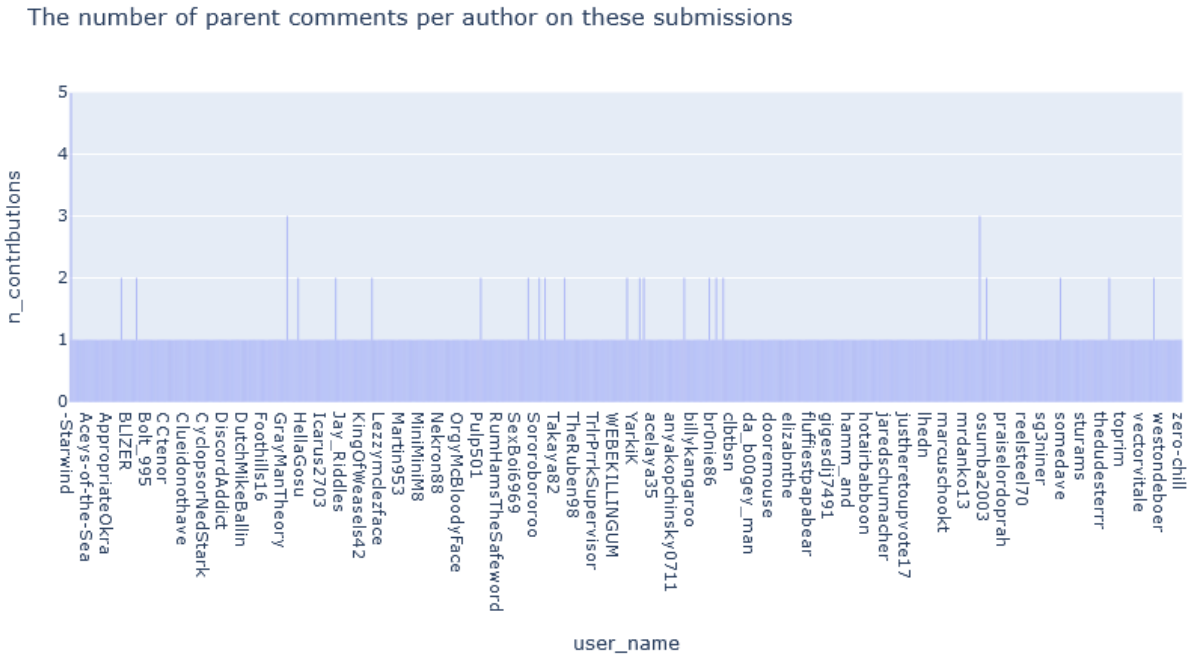
- t3_b1bdis 273
- t3_b1ccsj 253
- t3_b10ld3 147
- t3_bn6sot 145
- t3_ako0za 142



Check the top 5 submissions in 2019



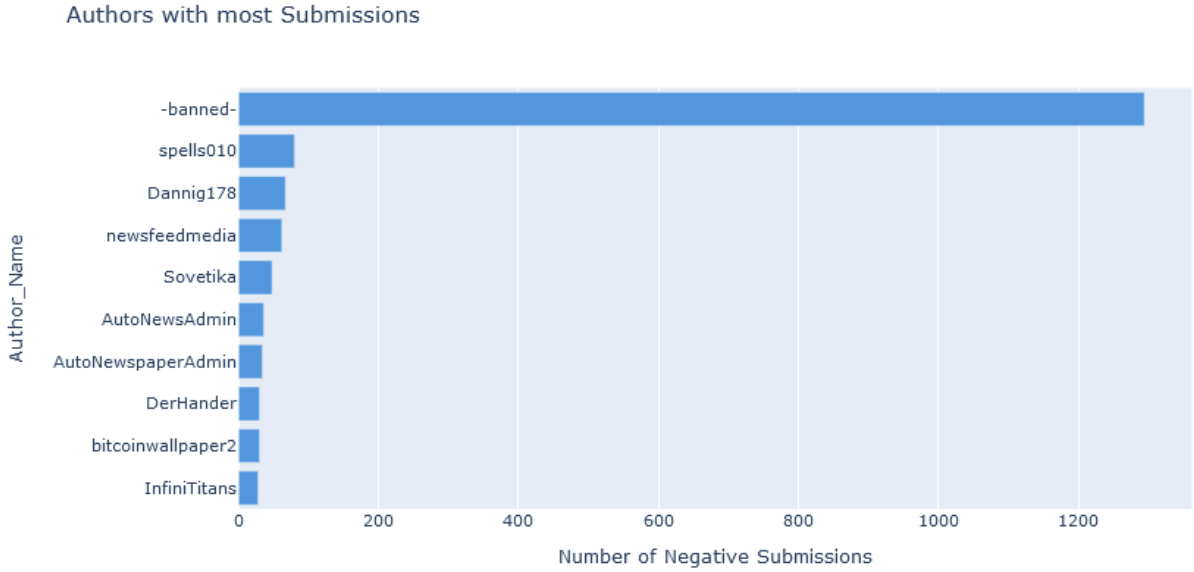
	user_name	n_contributions
1	-banned-	137
653	nodeofollie	3
156	GrubbyResponder	3
469	ch1nomachin3	2
746	theredditaccount4fun	2
...	...	...



- 14.27 % of contributions made by banned users.

Investigating authors with the most submissions

- -banned- 1294
- spells010 80
- Dannig178 67
- newsfeedmedia 62
- Sovetika 48
- AutoNewsAdmin 36
- AutoNewspaperAdmin 34
- DerHander 30
- bitcoinwallpaper2 30
- InfiniTitans 28



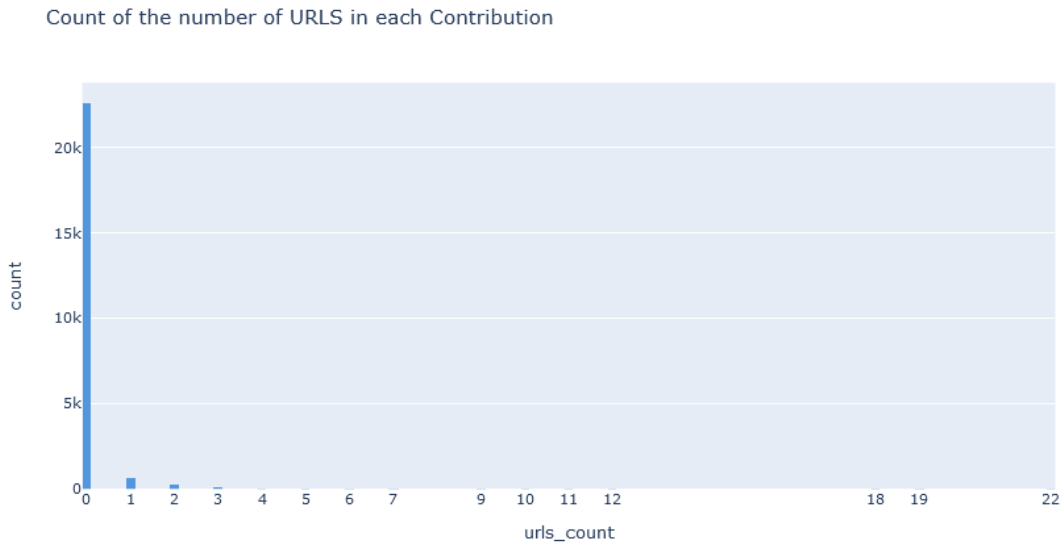
Check whether the users with the most submissions are mod, gold or having a verified email

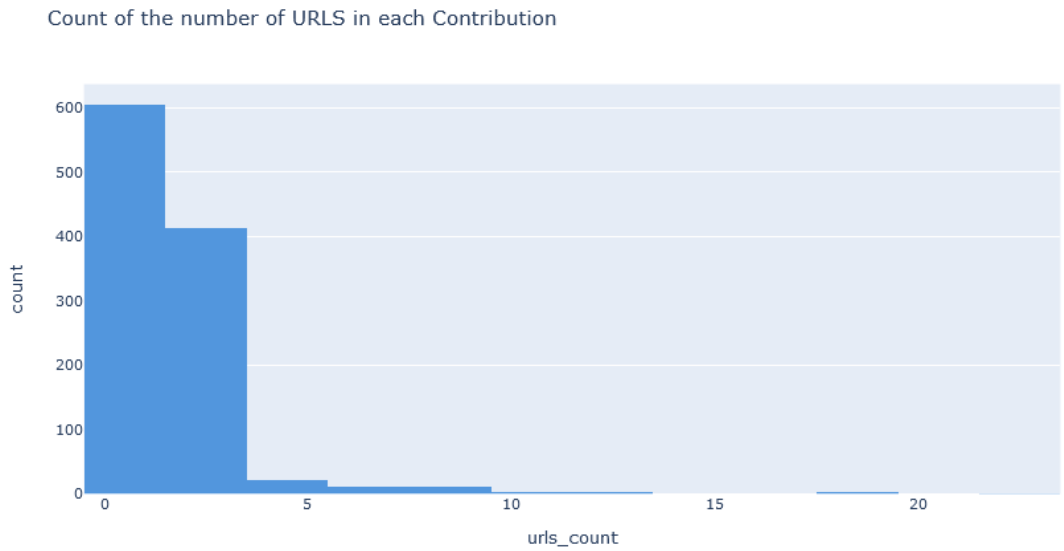
- A list of 24 users was made:
  - 'spells010','Dannig178','newsfeedmedia','Sovetika','AutoNewsAdmin',
    'AutoNewspaperAdmin','DerHander', 'bitcoinwallpaper2','InfiniTitans',
    'Rednaxela117','jwmonty8889','GRJR721','Eagles1205',
    'amigokomashiangeljr','Queen1110','imsrikant','MuskieFan18',
    'FreedomNewsPolitics','LightUpStreets','emilyguy','-en-',
    'iDevice_Help','LongClawww','88MPH1'

    - The value counts of the users with the most contributions:
      has_verified_email
      - True 23
      - False 1
    - The value counts of the users with the most contributions:
      is_mod
      - True 19
      - False 5
    - The value counts of the users with the most contributions:
      is_gold
      - False 17
      - True 7
    - The value counts of the users with the most contributions:
      is_banned
      - False 19
      - True 5
    - **The min of comment_karma** 0.0
    - **The max of comment_karma** 26585.0
    - **The mean of comment_karma** 4481.74
    - **The median of comment_karma** 4481.74
    - **The min of link_karma** 1.0
    - **The max of link_karma** 1836704.0
    - **The mean of link_karma** 263380.79
    - **The median of link_karma** 263380.79
    - The value counts of the users with the most contributions:
      banned_unverified
      - others 18
      - banned 5
      - unverified 1
    - The value counts of the users with the most contributions:
      creation_year
      - others 12
      - banned 5
      - 2018 5
      - 2019 2

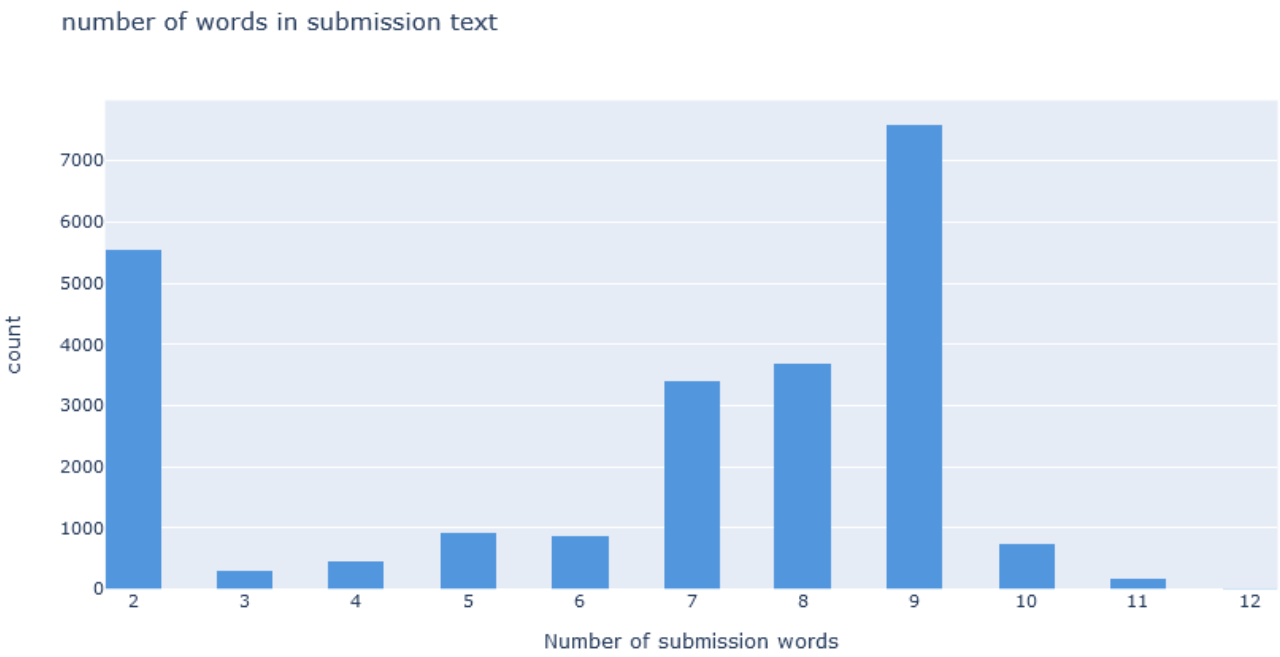
Submission URLS

- 309 different combinations of urls
  - [] 22608
  - ['https://jerkofftocelebs.com', 'https://www.instagram.com', 'https://discord.gg'] 94
  - ['https://www.instagram.com'] 88
  - ['https://www.instagram.com', 'https://discord.gg'] 64
  - ['https://www.reddit.com'] 63
  - ...





Check the number of submission text words



Subreddits

Most used Subreddits

- 535 subreddits used in 2019.
- Top subreddits

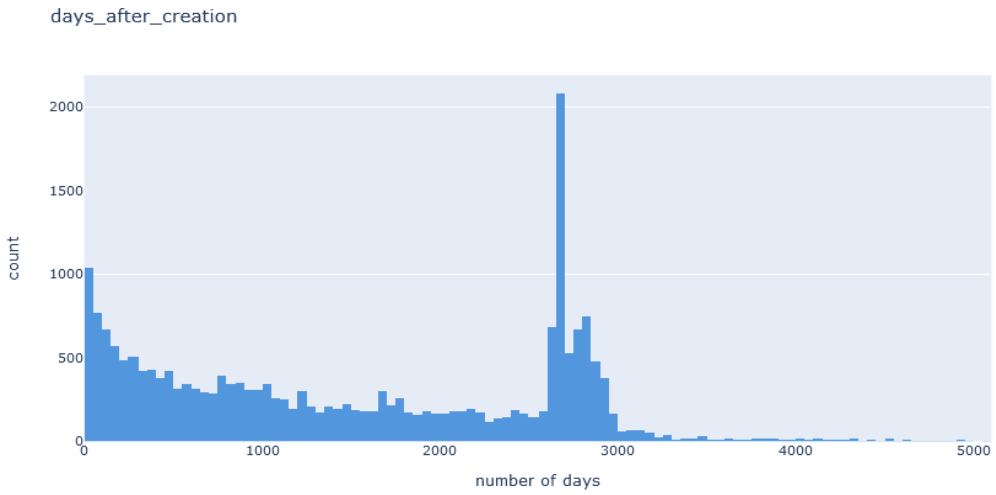
	subreddit
r/movies	3065
r/entertainment	2743
r/JerkOffToCelebs	1361
r/worldnews	1224
r/Celebs	1067
r/MensRights	1051
r/gentlemanboners	1034
r/DC_Cinematic	784
r/pussypassdenied	780
r/television	665

Merged Users Data with Comments/Submissions Data

Difference in time between creating the account and posting

In days..

- 2685.0 508
- 2684.0 297
- 2683.0 186
- 2686.0 179
- 2.0 104
- ...

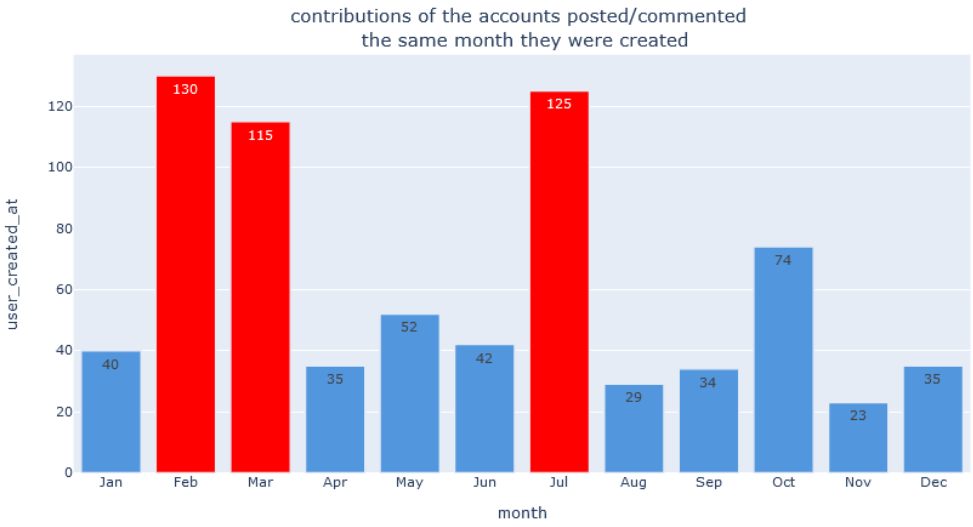


Posting Duration After Account Creation

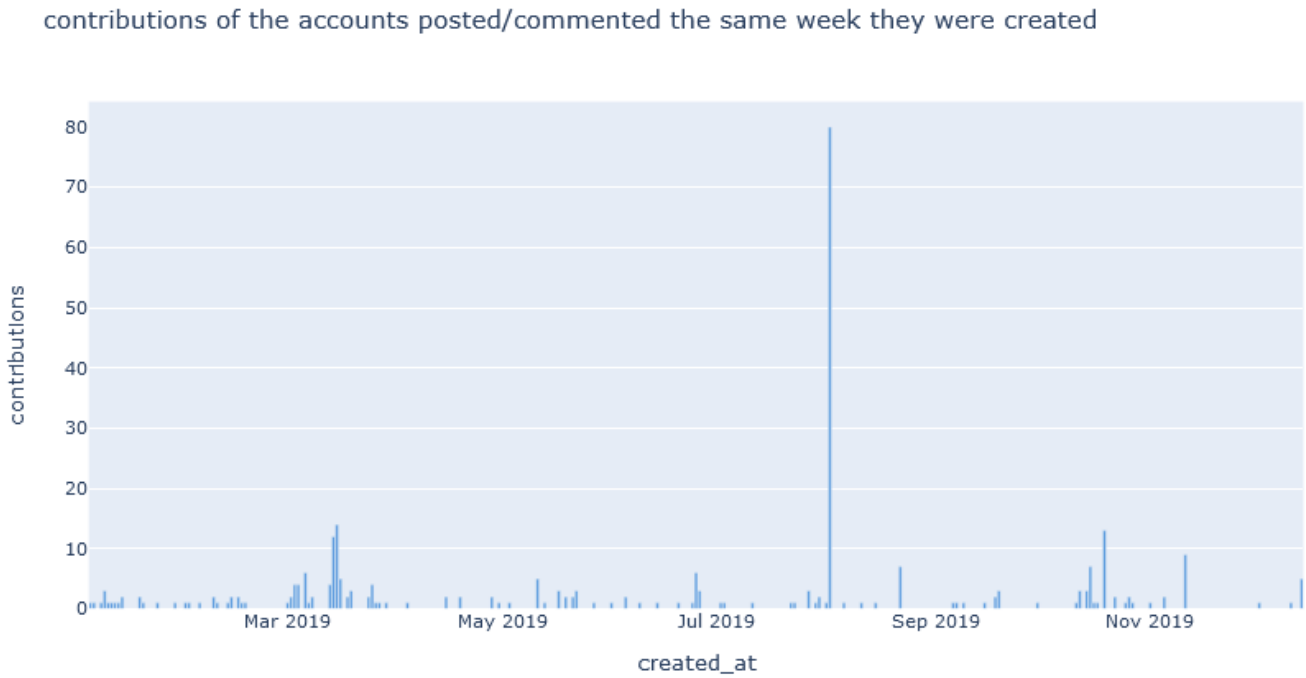
- The number of accounts posted the same day they were created was 66.
- The number of accounts posted the same week they were created was 307.
- The number of accounts posted the same month they were created was 734.

More investigations

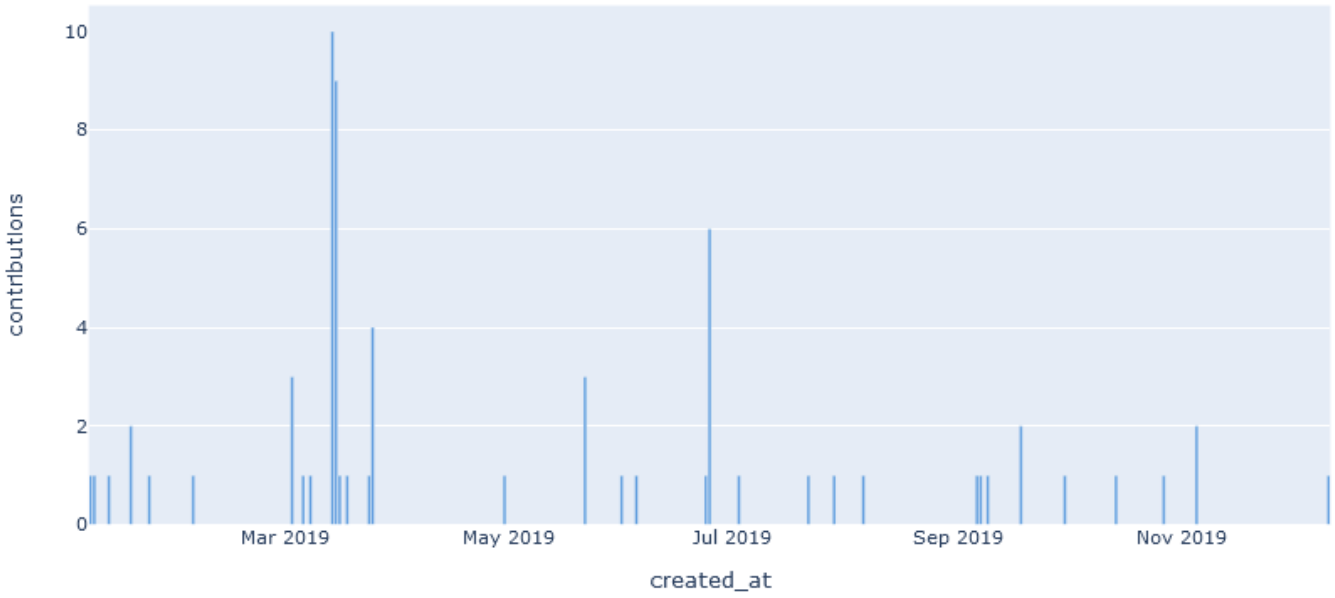
Same Month



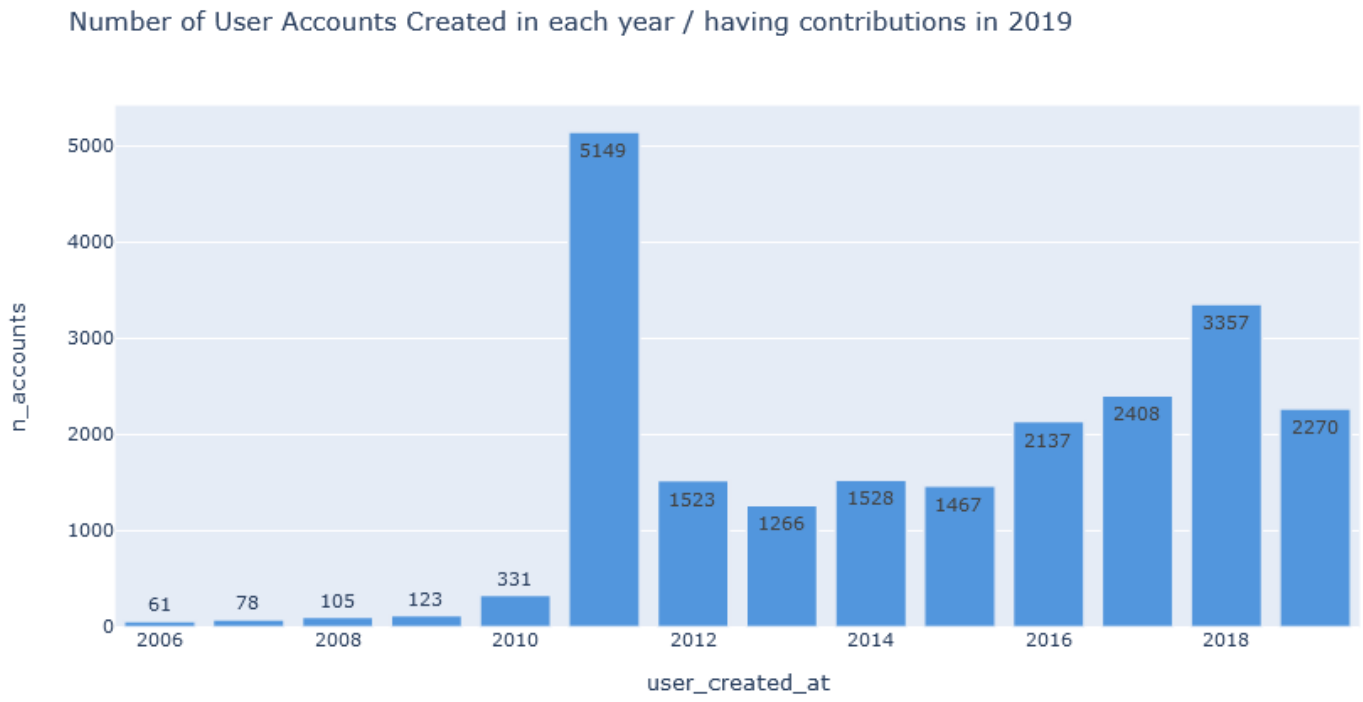
Same week



Same day



Estimation of Number of User Accounts Created in each year / having contributions in 2019



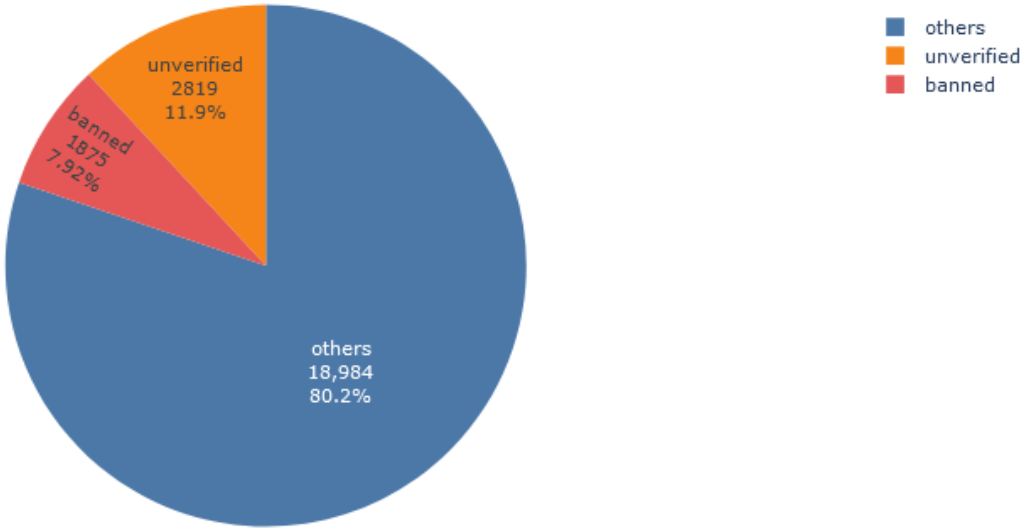
Banned Unverified accounts

- We have 18984 contributions in 2019 from banned accounts (275 users).
- We have 2819 contributions in 2019 from unverified accounts (459 users).
- 1875 users were made in 2019 and contributed in 2019 .

Contributions

	banned_unverified
others	18984
unverified	2819
banned	1875

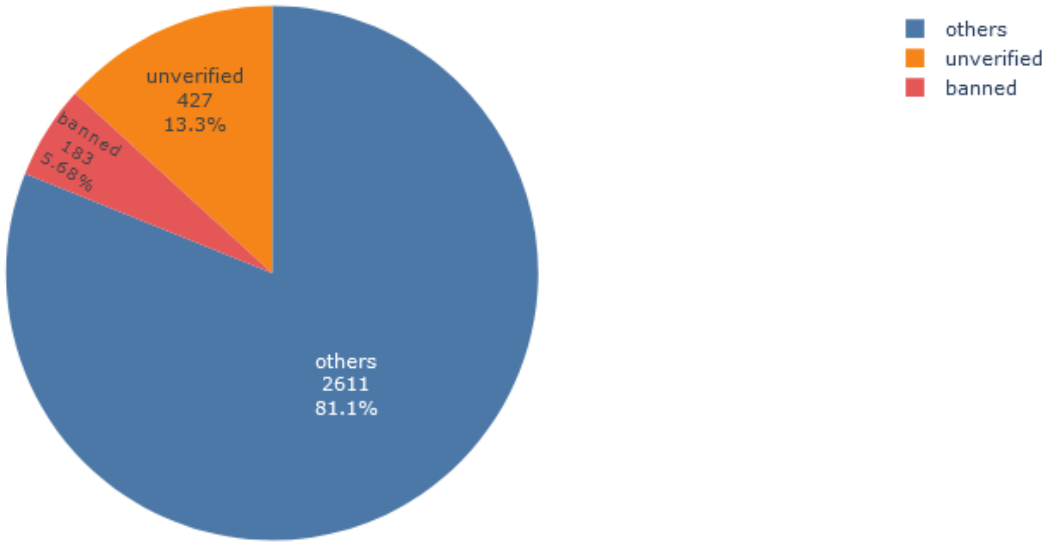
Contributions of banned / unverified /others in 2019



Peak Day Contributions

	banned_unverified
others	2611
unverified	427
banned	183

Contributions of banned / unverified /others on the peak day (2019-03-15)

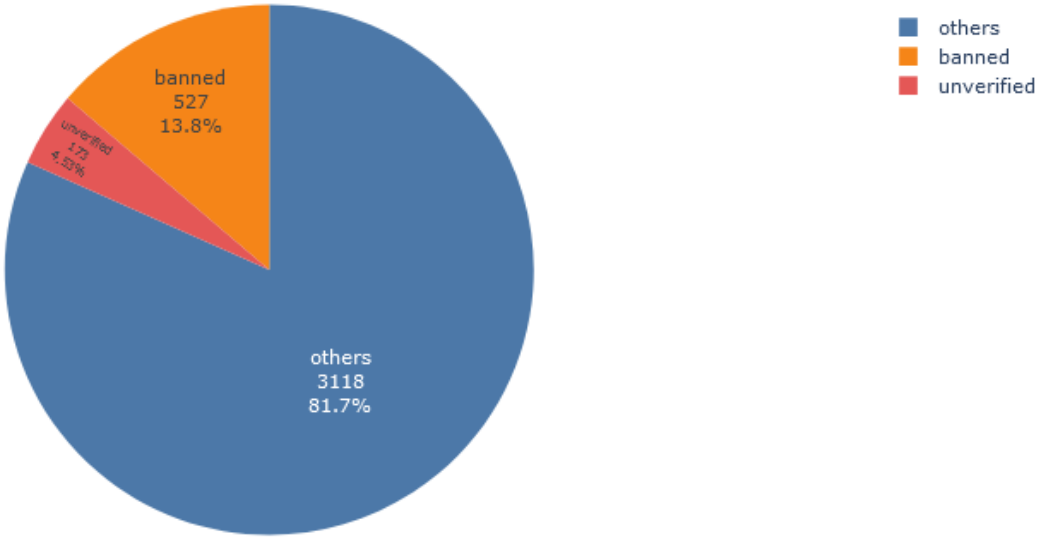


NOTE: 18.9% of peak day contributions were made by banned accounts and acoounts with unverified email addresses.

Submissions

	banned_unverified
others	3118
banned	527
unverified	173

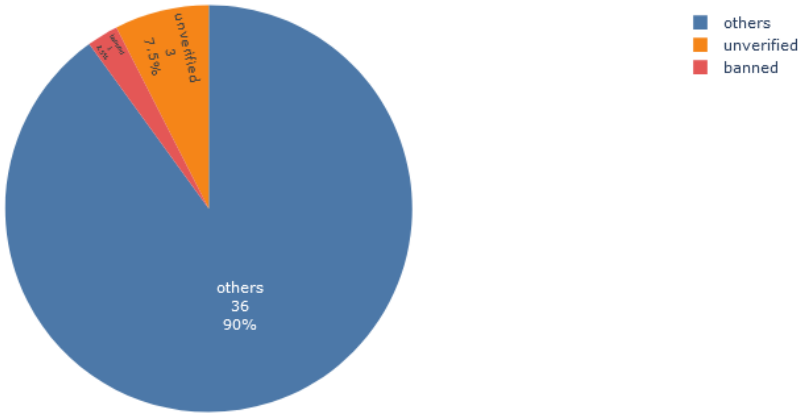
Submissions of banned / unverified /others in 2019



Peak Day Submissions

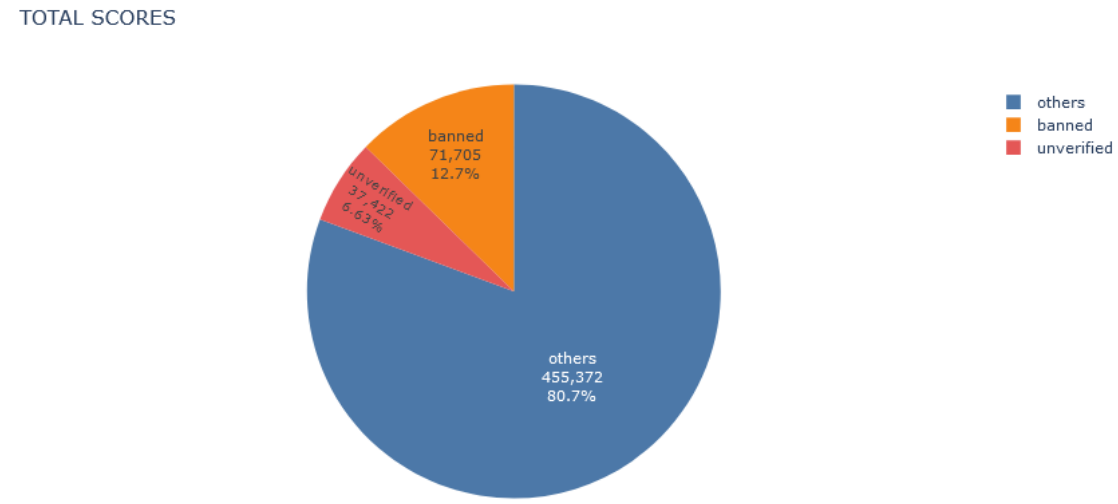
	banned_unverified
others	36
unverified	3
banned	1

Submissions of banned / unverified /others on the peak day (2019-03-15)



Total Scores

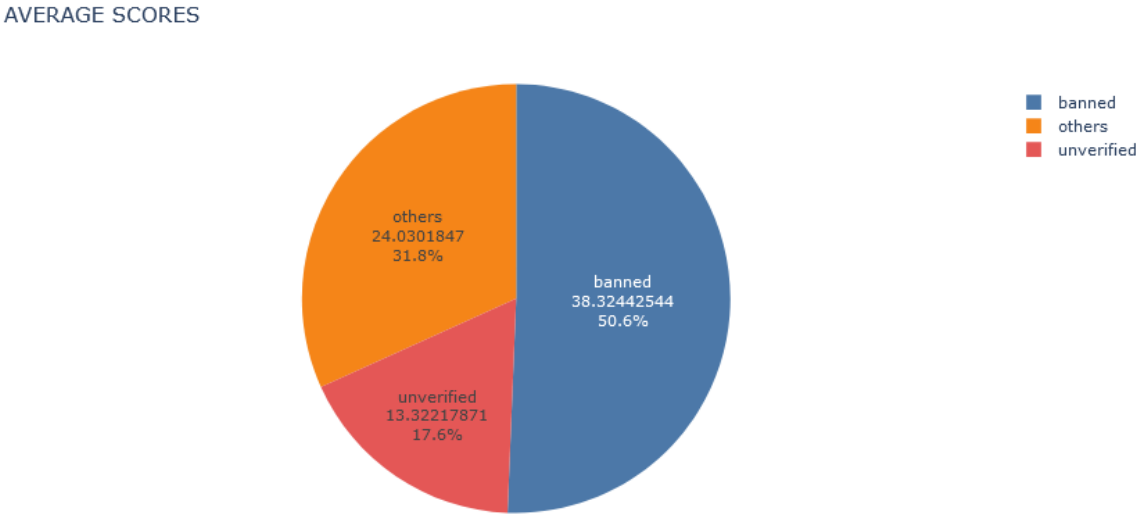
banned_unverified	score
banned	71705.0
others	455372.0
unverified	37422.0



Average Scores per contribution

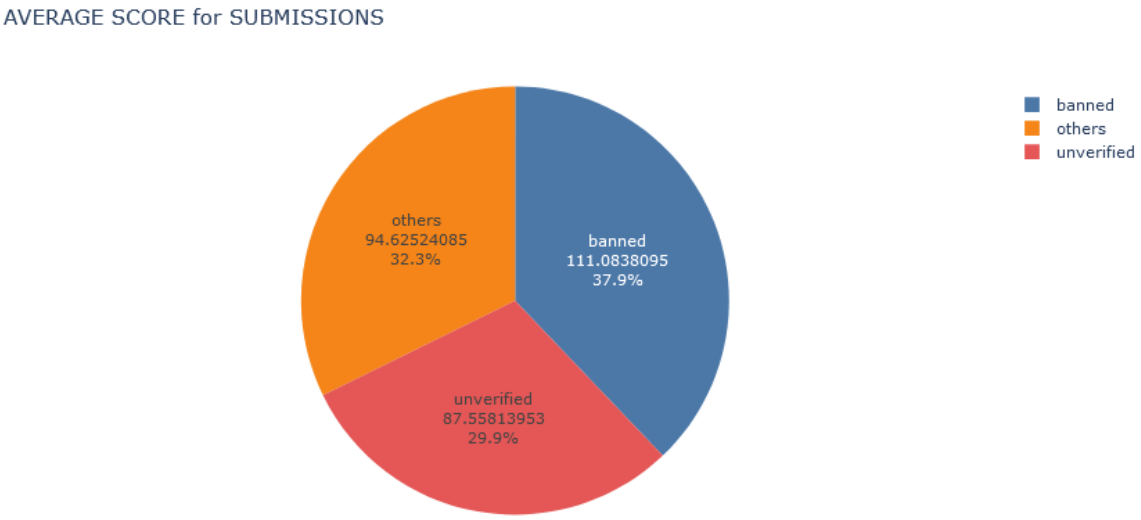
- avg_score = df_scores_relativ.score / df_scores_relative.n_contributions

banned_unverified	score
banned	38.324425
others	24.030185
unverified	13.322179



Average Scores per submission

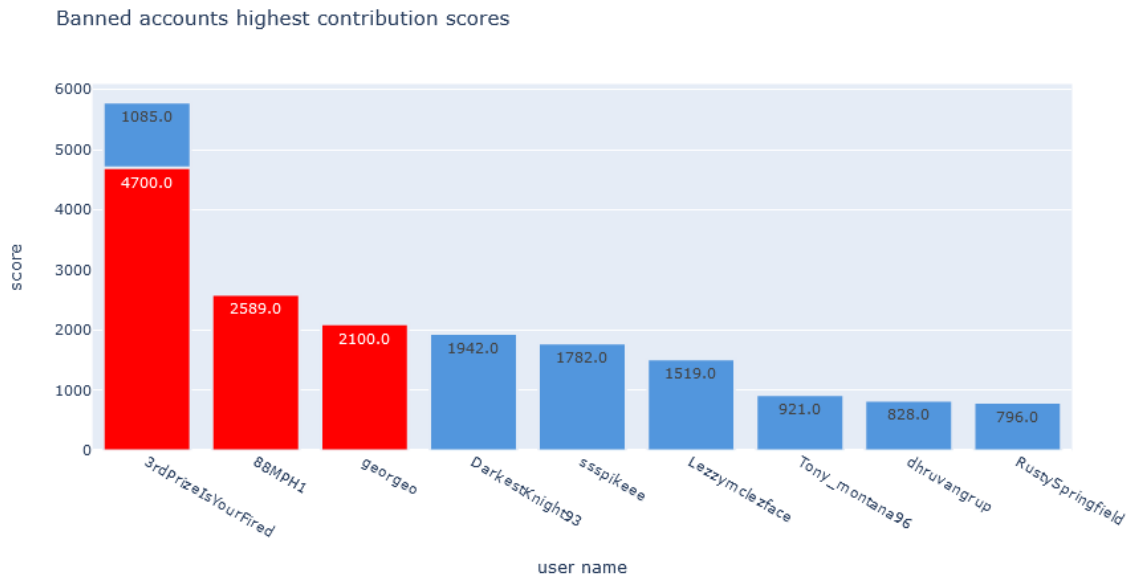
	banned_unverified	score
0	banned	111.083810
1	others	94.625241
2	unverified	87.558140



Banned Accounts

Banned-Accounts largest scores

- count 1871
- mean 38.32
- std 173.02
- min -247
- 25% 1
- 50% 3
- 75% 16
- max 4700



- 7491 3rdPrizeIsYourFired
- 6153 88MPH1
- 7776 georgeo
- 6110 DarkestKnight93
- 22678 ssspikeee
- 14141 Lezzymclezface
- 7493 3rdPrizeIsYourFired
- 6975 Tony_montana96
- 7761 dhruvangrup
- 20749 RustySpringfield

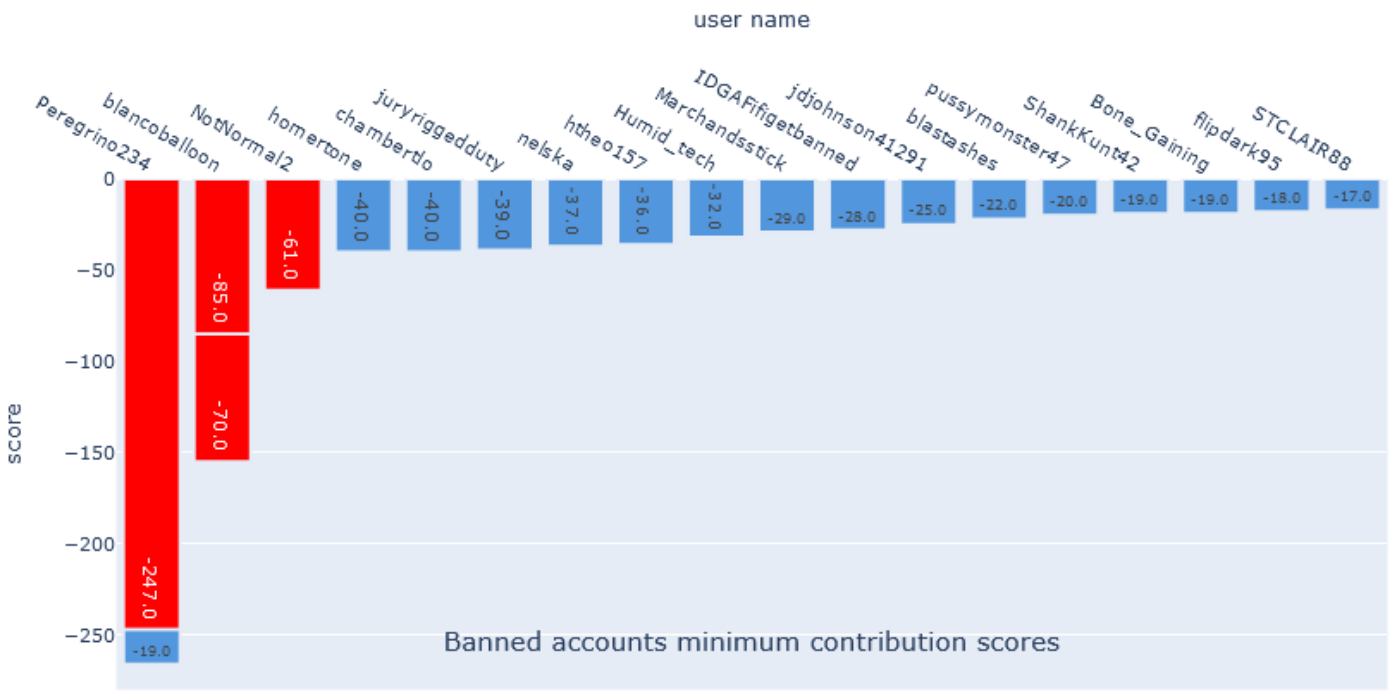
- "3rdPrizeIsYourFired": these user contributions got the highest scores.

(Since this user is banned, we have no user information but, we can further investigate his contributions)

"3rdPrizeIsYourFired": made 6 contributions

- submission 5
- comment 1

Banned-Accounts minimum scores

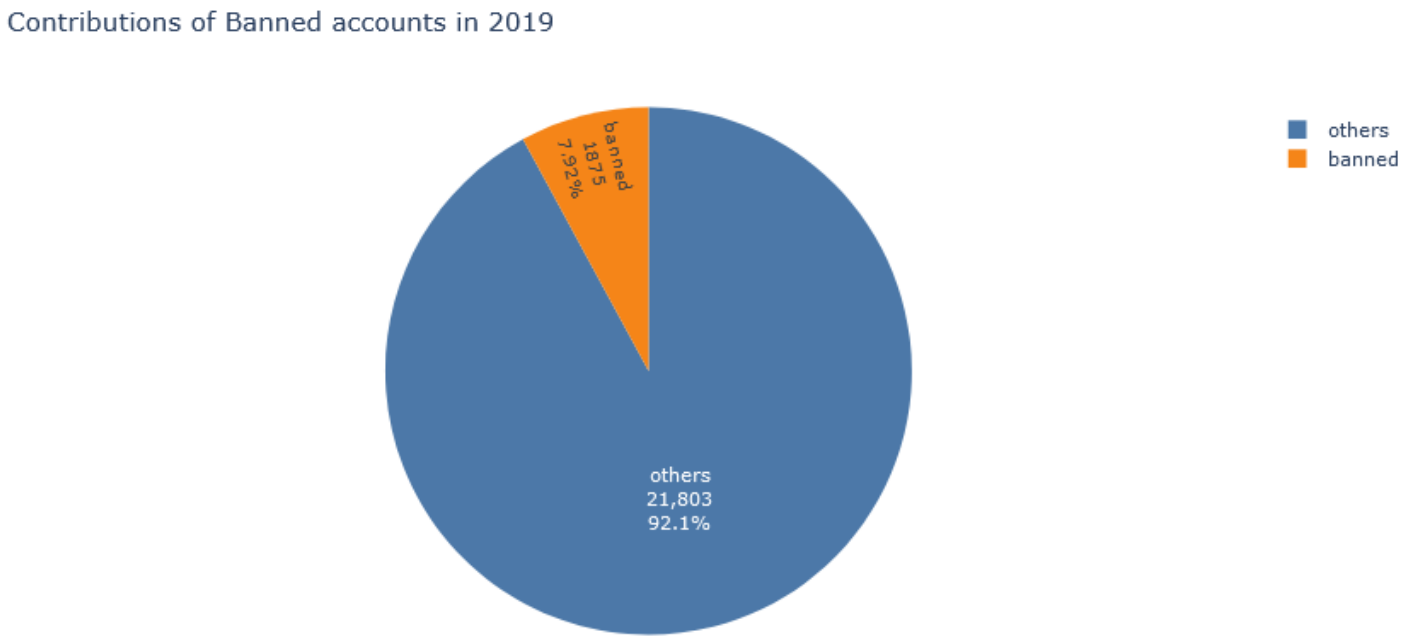


- 9219 Peregrino234
- 17584 blancoballoon
- 17583 blancoballoon
- 14937 NotNormal2
- 17053 homertone
- 9393 chambertlo
- 9263 juryriggedduty
- 6845 nelska
- 16696 htheo157
- 11237 Humid_tech
- 9876 Marchandsstick
- 21176 IDGAFifigetbanned
- 5432 jdjohnson41291
- 11112 blastashes
- 21672 pussymonster47
- 10798 ShankKunt42
- 11340 Bone_Gaining
- 9220 Peregrino234
- 13557 flipdark95
- 9267 STCLAIR88

Peregrino234 this user contribution got the minimum scores.

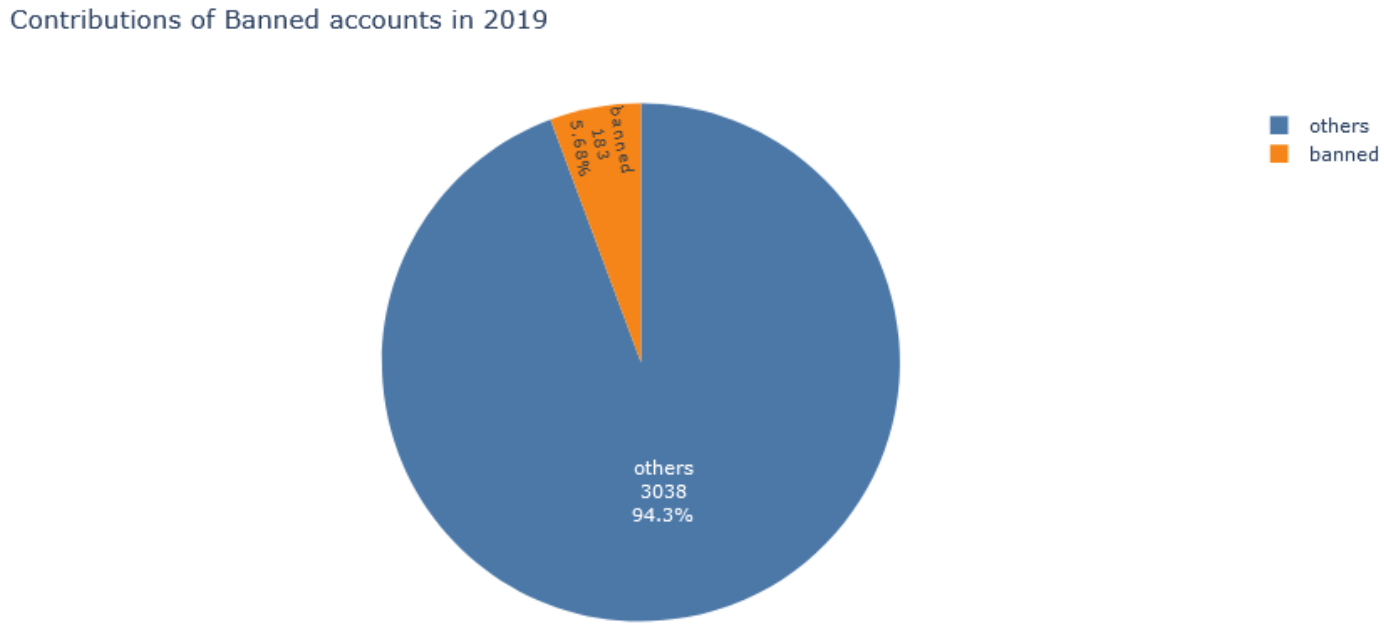
- he made 6 different comments in one subreddit **r/pussypassdenied** in the same day **2019-03-03**

Contributions of Banned accounts in 2019



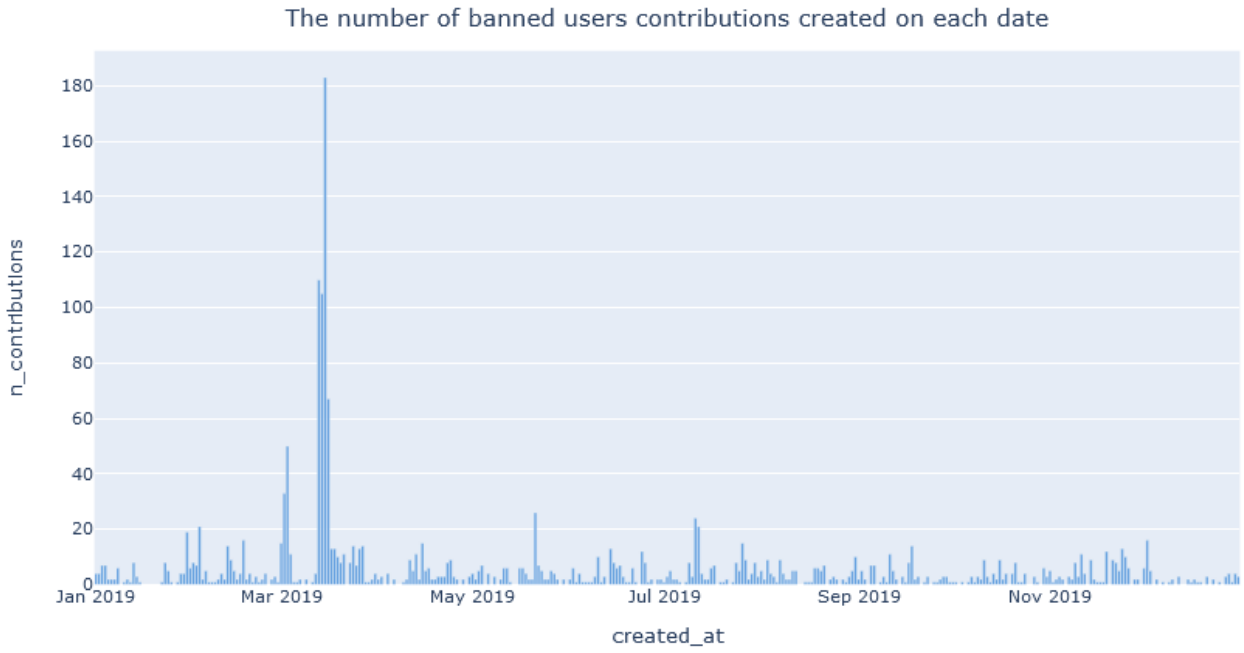
- The percentage % of 2019 contributions made by Banned accounts: 7.92
- Total banned accounts comments in 2019: 1348

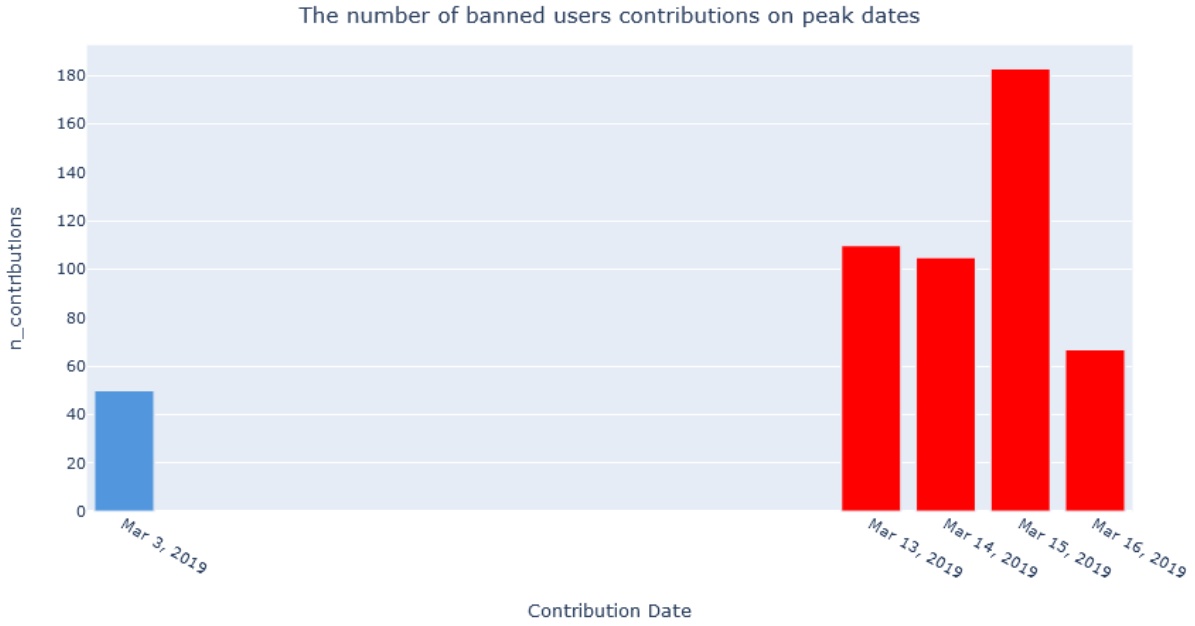
Banned Accounts Contributions Peaks



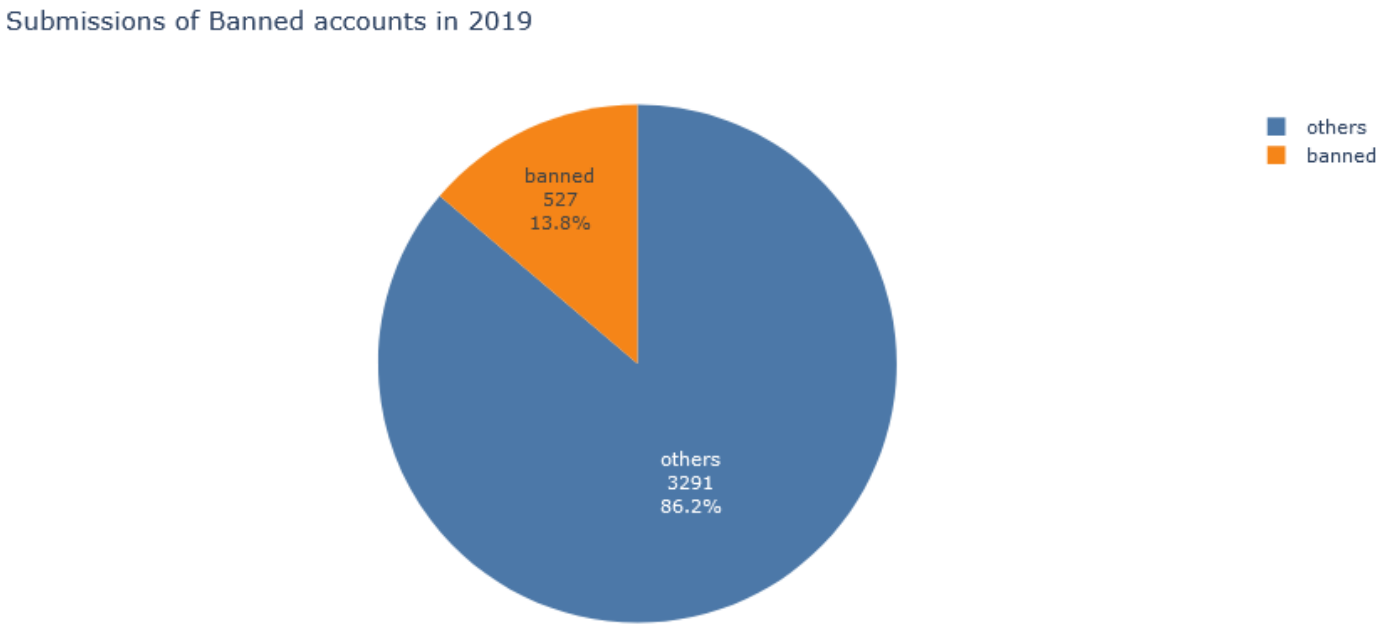
Which dates had the highest contributions of banned users?

- 2019-03-15 183
- 2019-03-13 110
- 2019-03-14 105
- 2019-03-16 67
- 2019-03-03 50
- ...





Submissions of Banned accounts in 2019



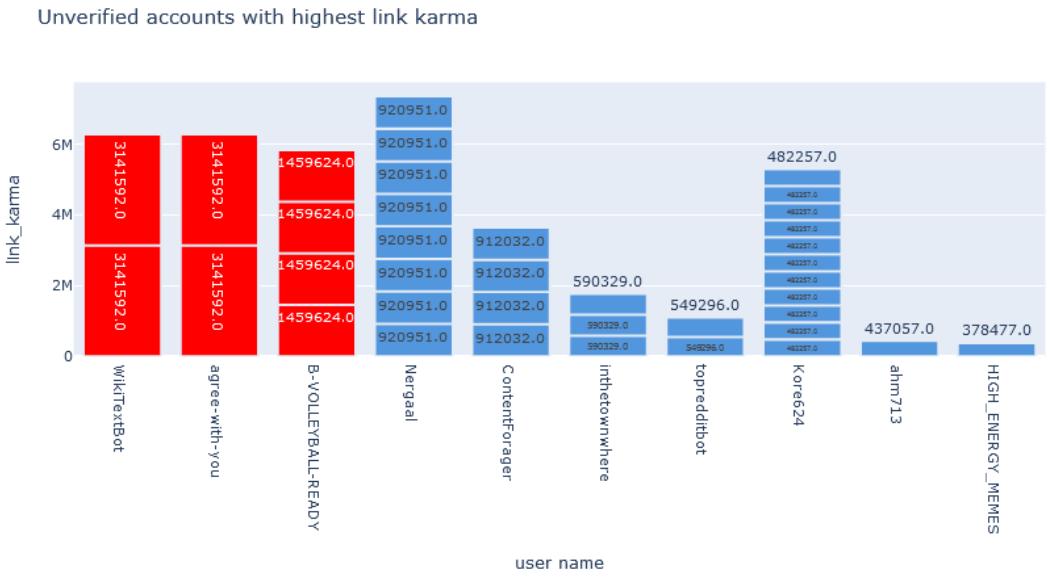
- The percentage % of 2019 submissions made by Banned accounts: 13.8
- Total banned accounts submissions in 2019: 527
- Top submissions:
  - Amber Heard 267
  - [Gif] amber heard 11
  - Amber heard 9
  - Amber Heard nsfw 5
  - Amber Heard - The Informers 4

- "**imsrikant**": this user made 22 submissions with the same text in the same time in 6 different subreddits
  - r/Celebhub 8
  - r/gentlemanboners 7
  - r/CelebBattles 4
  - r/Celebs 2
  - r/goddesses 1
  - r/WatchItForThePlot 1

  in these dates
  - 2019-05-04 6
  - 2019-04-17 6
  - 2019-05-06 3
  - 2019-04-15 3
  - 2019-04-19 2
  - 2019-12-28 1
  - 2019-04-16 1
  - 2019-05-10 1

Unverified Accounts

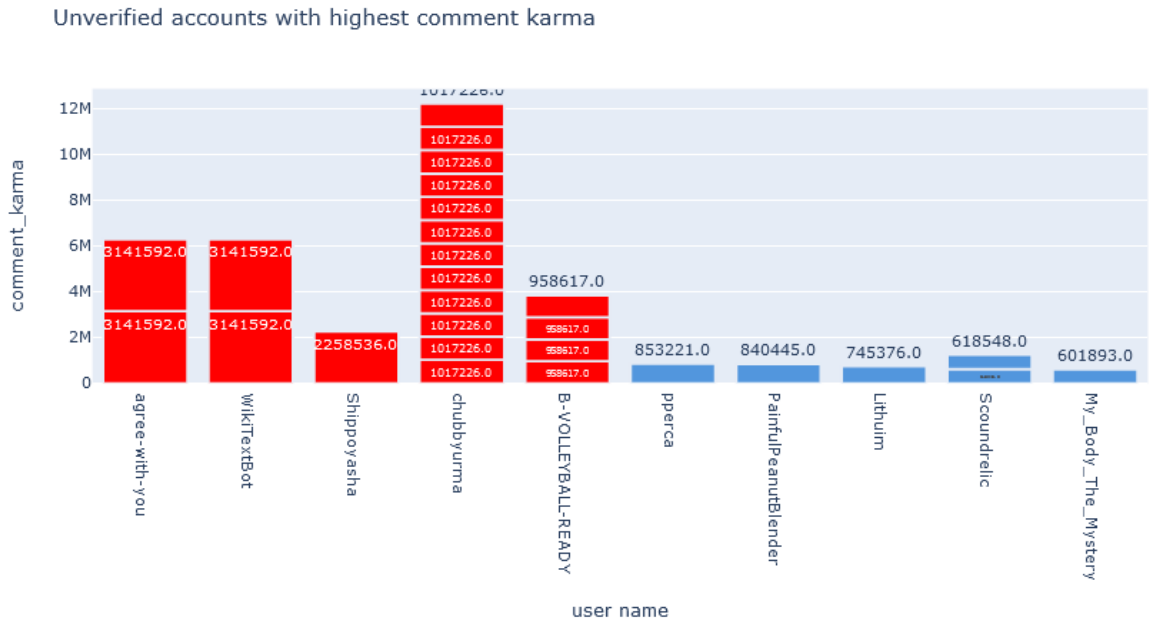
Unverified Accounts With The Largest Link Karma



users with highest link karma

- 'WikiTextBot'
- 'agree-with-you'
- 'B-VOLLEYBALL-READY'

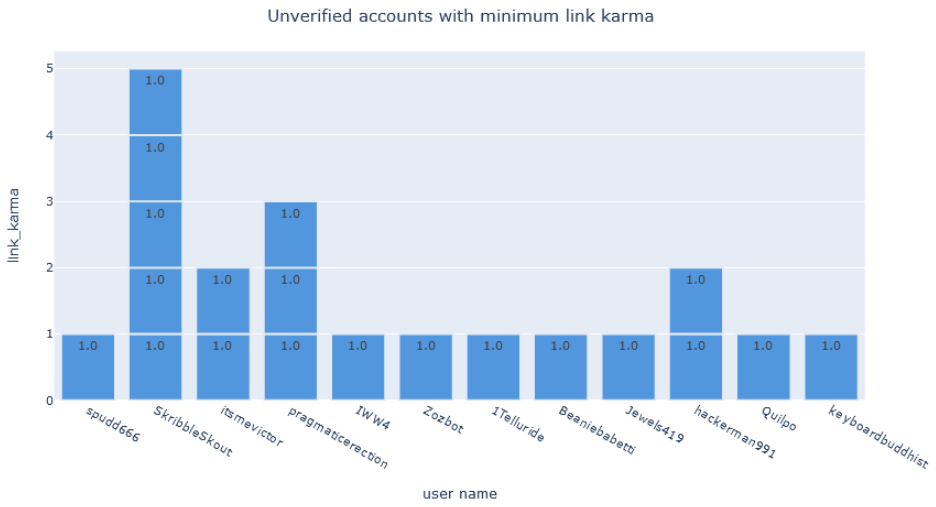
Unverified Accounts With The Largest Comment Karma



agree-with-you unverified account with the highest comment karma

- made 2 comments on two different subreddits:
  - r/PurplePillDebate 1
  - r/JerkOffToCelebs 1
- the time of two comments is:
  - 2018-03-11 00:17:42

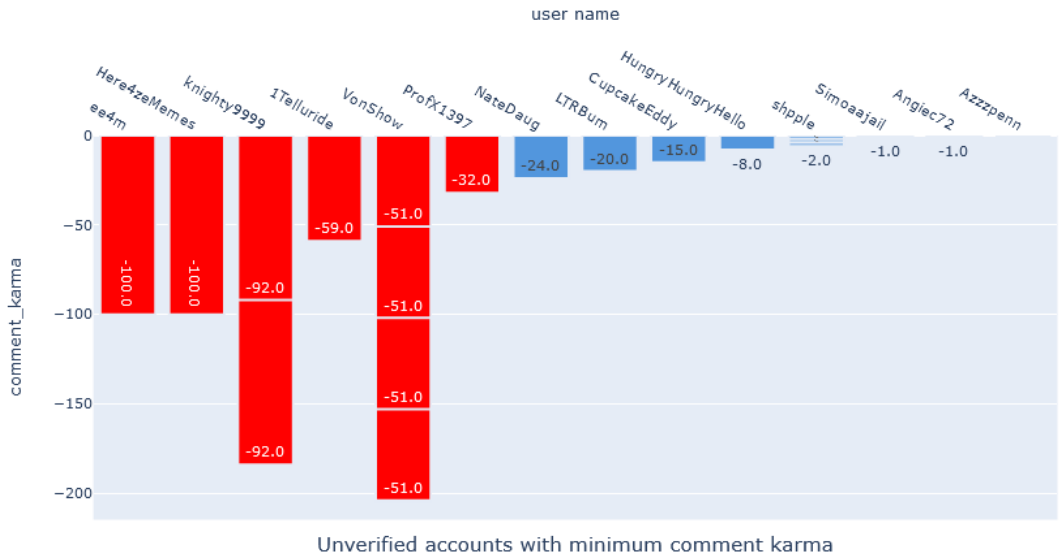
Unverified Accounts With The Minimum Link Karma



- A lot of unverified users has a link karma of **1**

  'spudd666', 'SkribbleSkout', 'itsmevictor', 'itsmevictor', 'spudd666', 'SkribbleSkout', 'itsmevictor', 'pragmaticerection', 'IWW4', 'Zozbot', '1Telluride', 'Beaniebabetti', 'Jewels419', 'hackerman991', 'Quilpo', 'keyboardbuddhist'

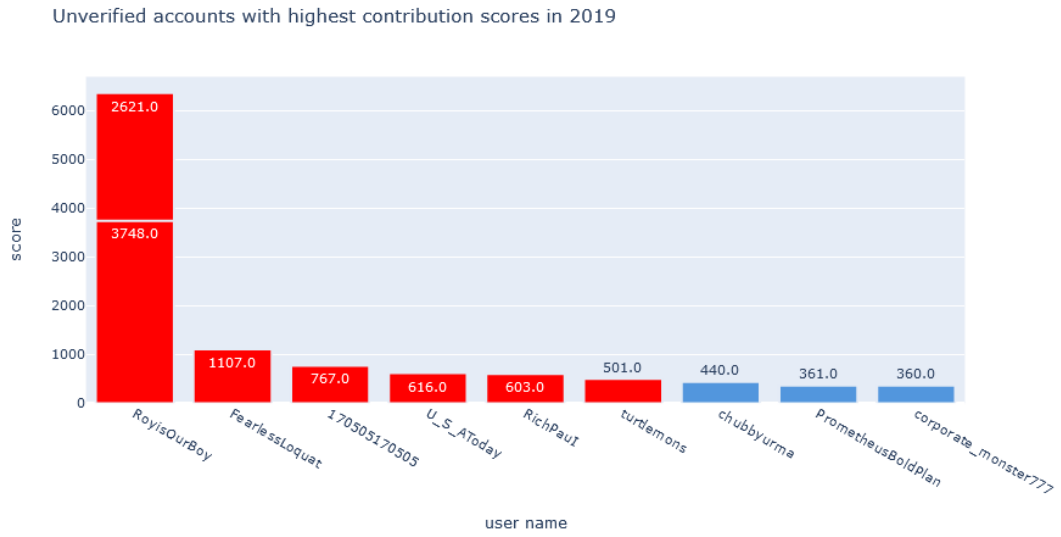
Unverified Accounts With The Minimum Comment Karma



- **ee4m** has the minimum comment karma

Explore the largest scores

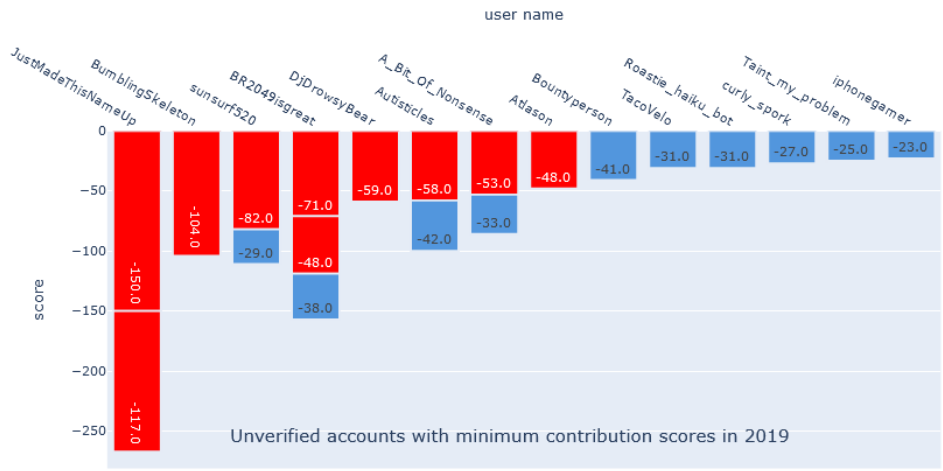
- count 2809
- mean 13.32
- std 96.85
- min -150
- 25% 1
- 50% 2
- 75% 7
- max 3748



RoyisOurBoy this user has the highest score among the unverified users

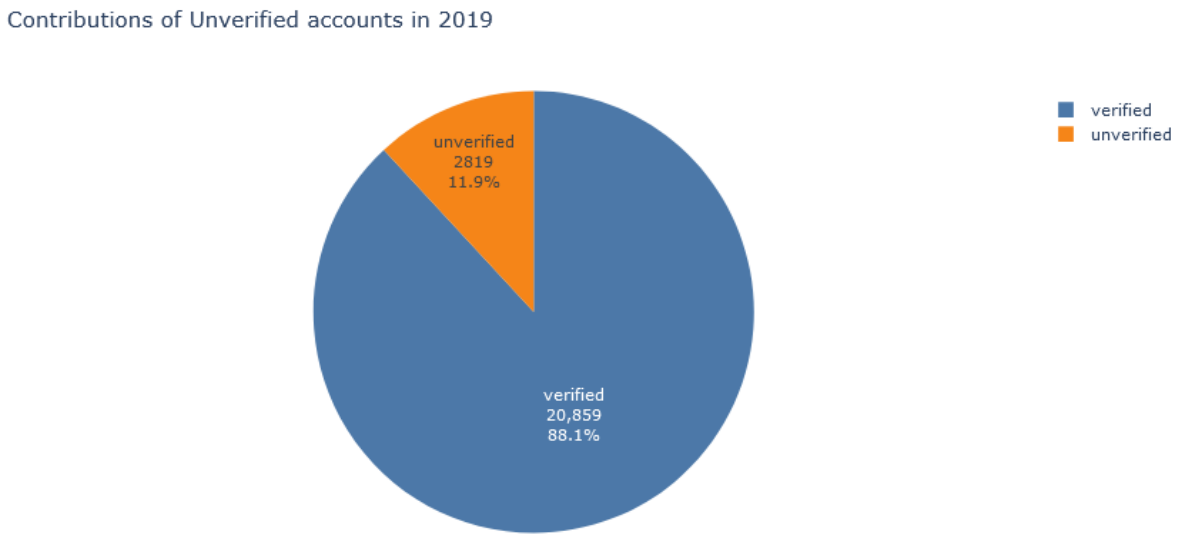
- created at 2019-03-02
- made 3 submissions in 2 different subreddits:
  - r/entertainment 2
  - r/movies 1

Explore the minimum scores

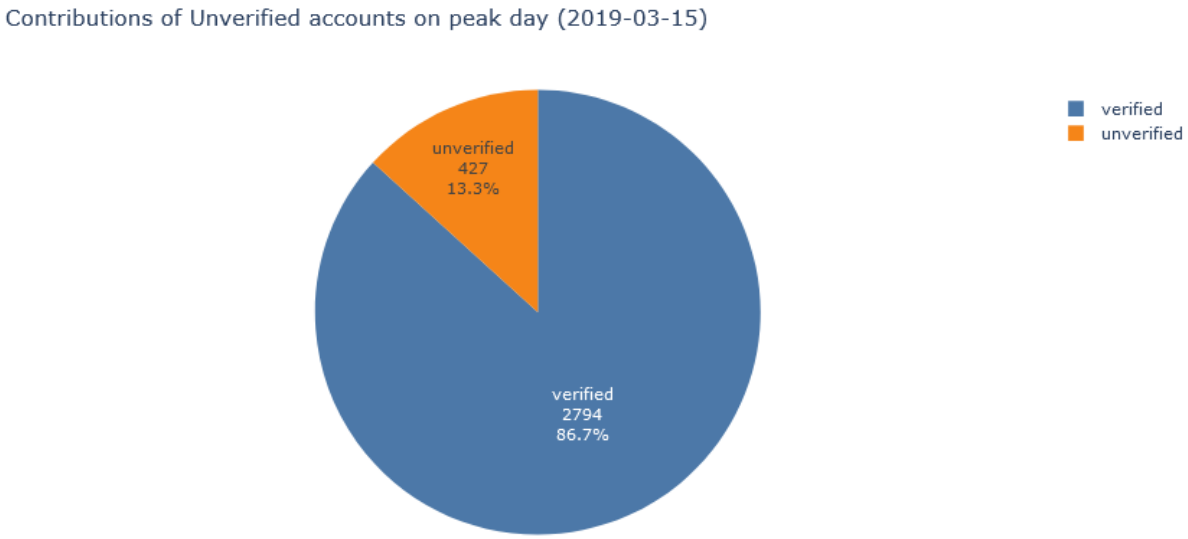


- **JustMadeThisNameUp** this user has the minimum score among the unverified users

Contributions of Unverified accounts in 2019



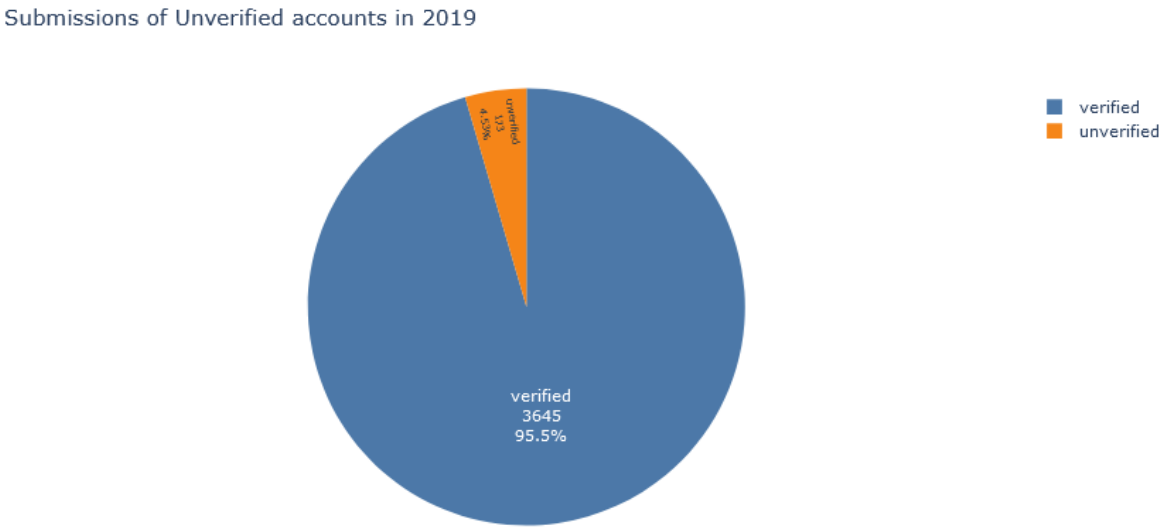
Peak day contributions (2019-03-15)



Comments

- Total unverified accounts comments in 2019: 2646
- Top comments
  - KFM 10
  - FMK 8
  - Margot 8
  - Amber 7
  - FKM 6

Submissions



- Top submissions:
  - Amber Heard 43
  - Amber Heard - The Informers (2009) 6
  - Shakira, Amber Heard, Candice Swanepoel 3
  - Amber Heard in Aquaman 3
  - Johnny Depp was abused by ex-wife Amber Heard, new evidence shows 2

user **Inbox_ME_UR_WHATSAPP** made 4 submissions in the 2 subreddits **r/Celebsnudess, r/sexycelebs** in different days:

- 2019-01-08 1
- 2019-01-13 1
- 2019-01-11 1
- 2019-01-30 1

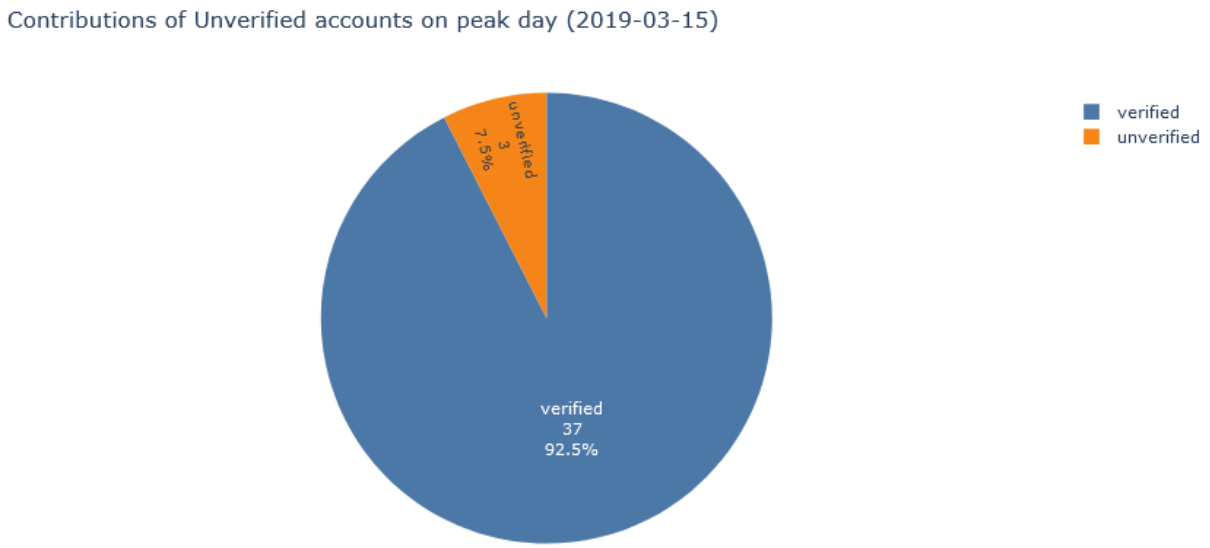
	user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
	Inbox_ME_UR_WHATSAPP	False	False	False	False	27.0	34244.0	2019-01-07 11:18:27	unverified	2019

user **Win168k** made 4 submissions in the same subreddit **u/Win168k**

- 2019-12-09 1
- 2019-10-15 1
- 2019-10-13 1
- 2019-08-11 1

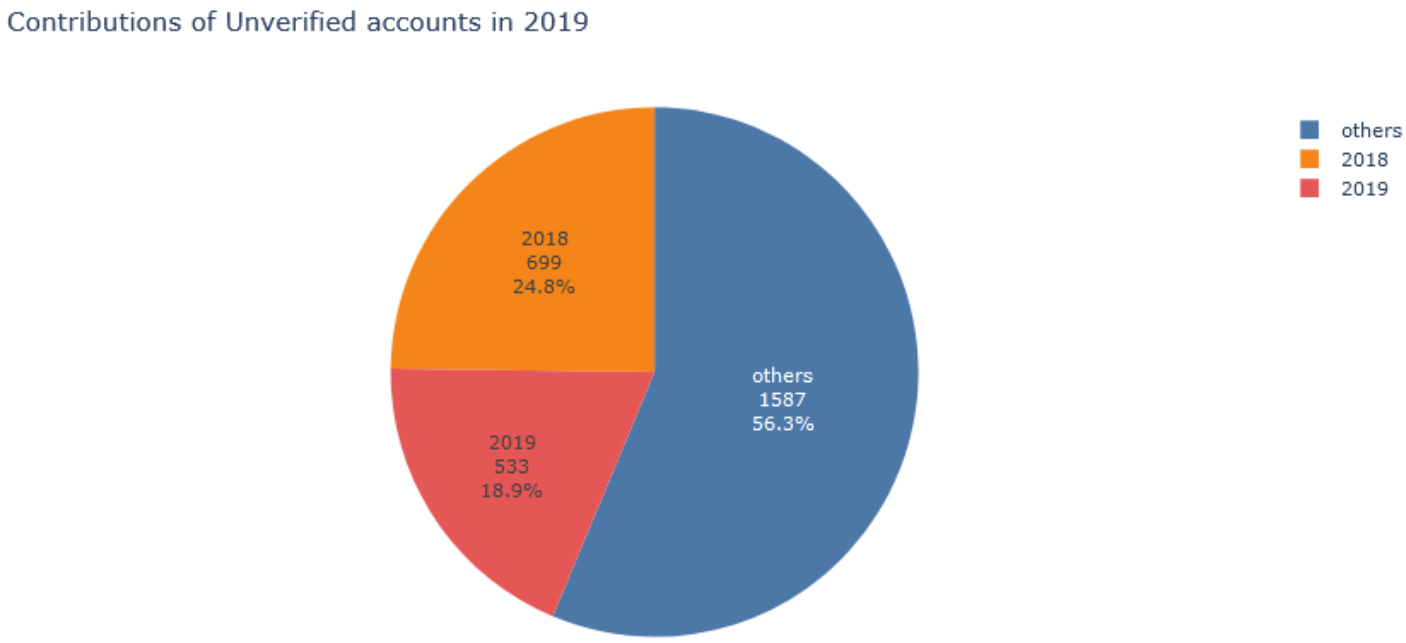
user_name	has_verified_email	is_mod	is_gold	is_banned	comment_karma	link_karma	user_created_at	banned_unverified	creation_year
Win168k	False	False	False	False	5.0	1118.0	2018-08-03 17:35:12	unverified	2018

Peak day submissions 2019-03-15

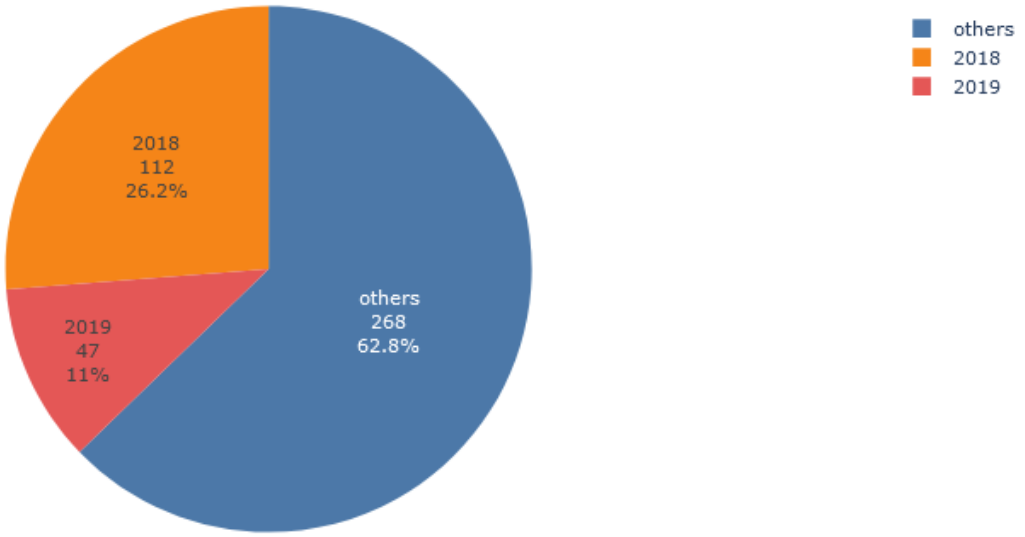


The account creation year of the unverified accounts contributed in 2019

Contributions

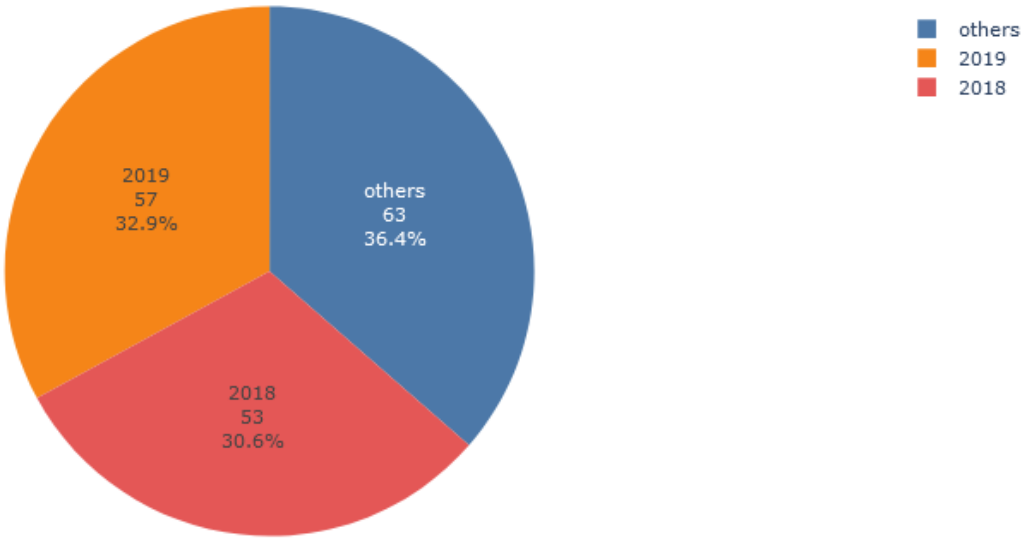


Contributions of unverified accounts on the peak day (2019-03-15)

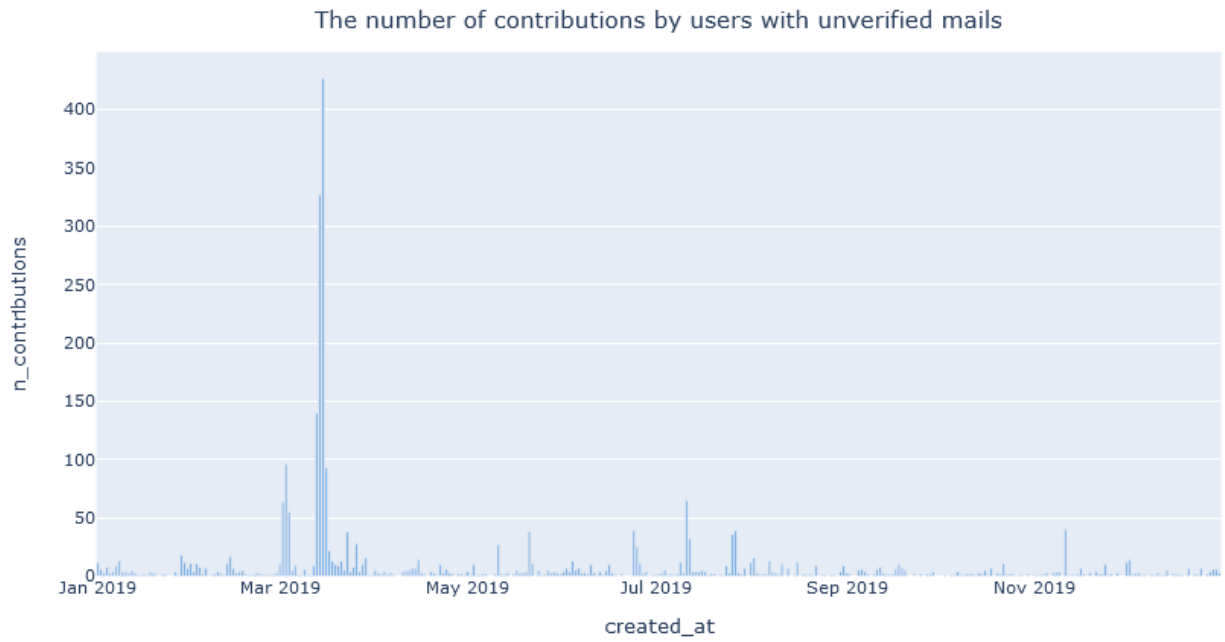


Submissions

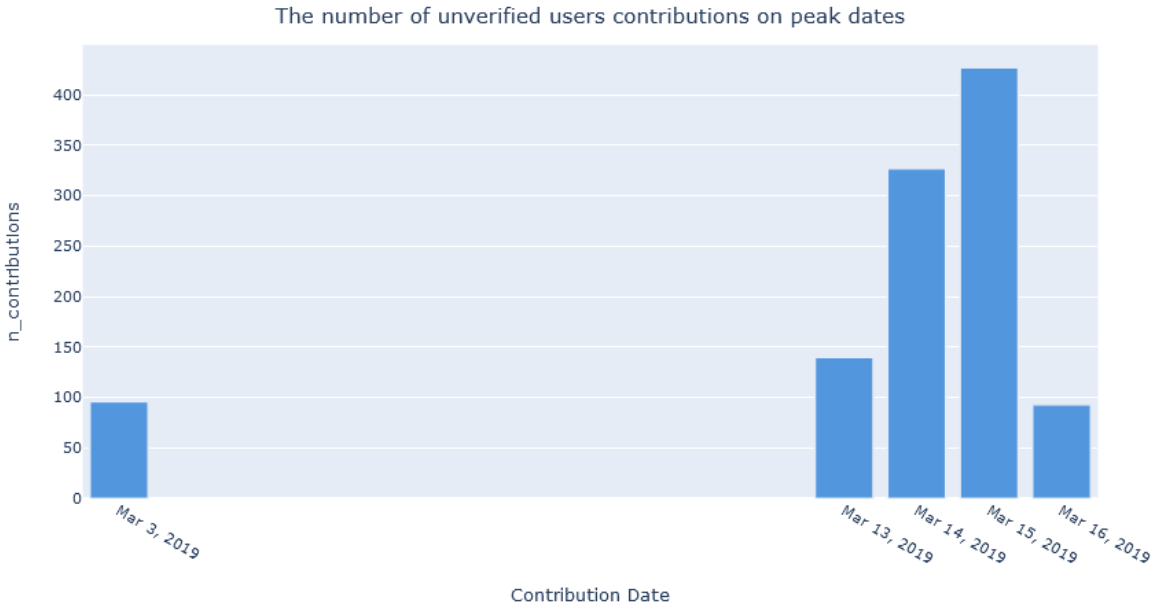
Submissions of Unverified accounts in 2019



- Unverified Accounts made 3 submissions on the peak day 2019-03-15



Which dates had the highest contributions of unverified accounts?

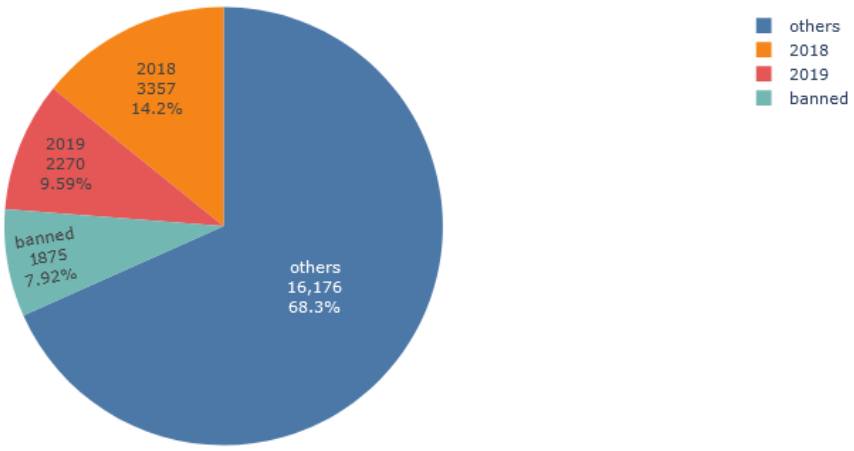


	created_at	n_contributions
57	2019-03-03	96
67	2019-03-13	140
68	2019-03-14	327
69	2019-03-15	427
70	2019-03-16	93

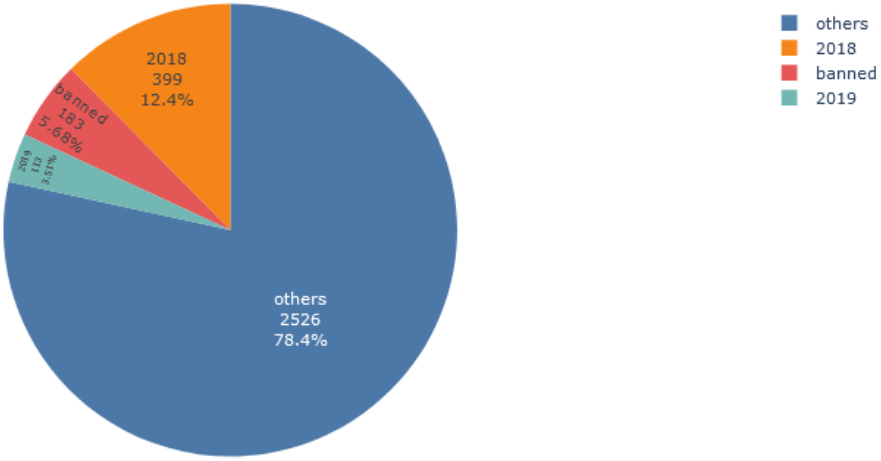
New Vs Others

New Accounts Contributions

Contributions of newly (accounts created in 2018 and 2019) created accounts in 2019



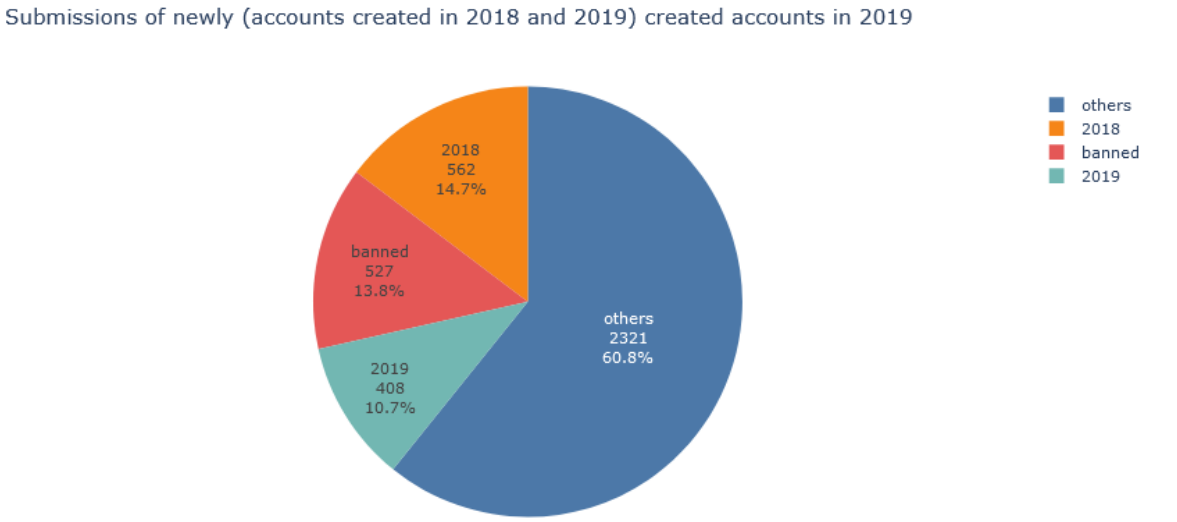
Contributions of newly (accounts created in 2018 and 2019) created accounts on the peak day (2019-03-15)

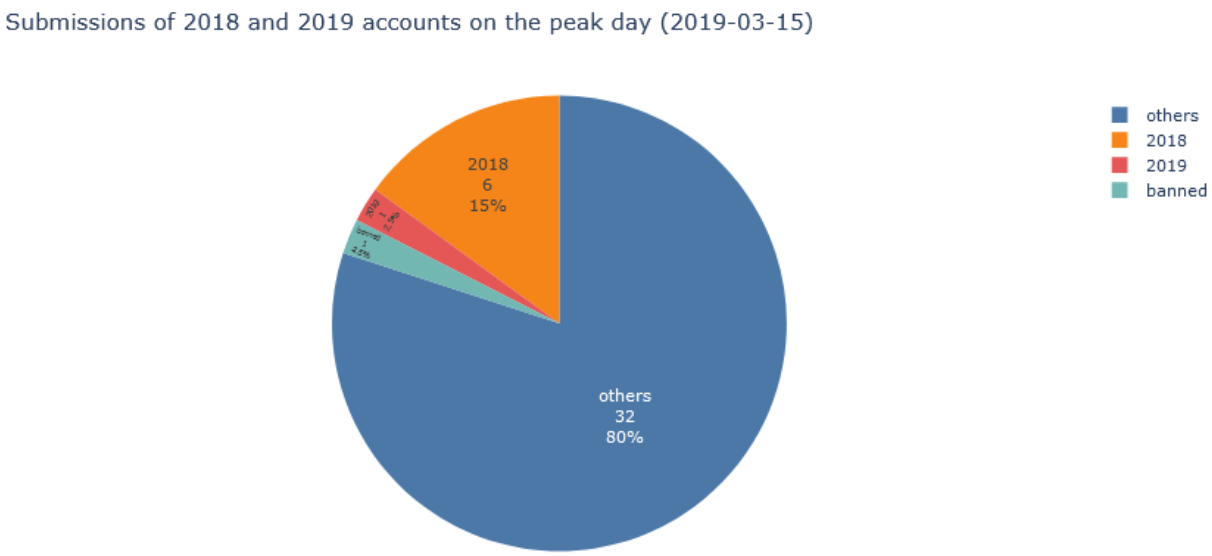


NOTE:

- About 23.79% of 2019 Contributions in 2019 were made by users created in 2018 and 2019.
- About 15.91% of 2019 Contributions on 2019-03-15 were made by users created in 2018 and 2019.

New Accounts Submissions





- About 25.4% of 2019 Submissions in 2019 were made by users created in 2018 and 2019.
- About 17.5% of 2019 Submissions on 2019-03-15 were made by users created in 2018 and 2019.

NOTE: We only have 40 submissions on peak day with about 3181 comments and replies

Accounts created in 2018

Contributions

- Total contributions in 2019 made by newly created accounts(2018): 3357
- The percentage % of 2019 contributions made by newly created accounts(2018): 14.18

Comments

- Total comments in 2019 made by newly created accounts(2018): 2795

Submissions

- Total submissions in 2019 made by newly created accounts(2018): 562
- The percentage % of 2019 submissions made by newly created accounts(2018): 14.72

Accounts created in 2019

Contributions

- Total contributions in 2019 made by newly created accounts(2019): 2270
- The percentage % of 2019 contributions made by newly created accounts(2019): 14.18

Comments

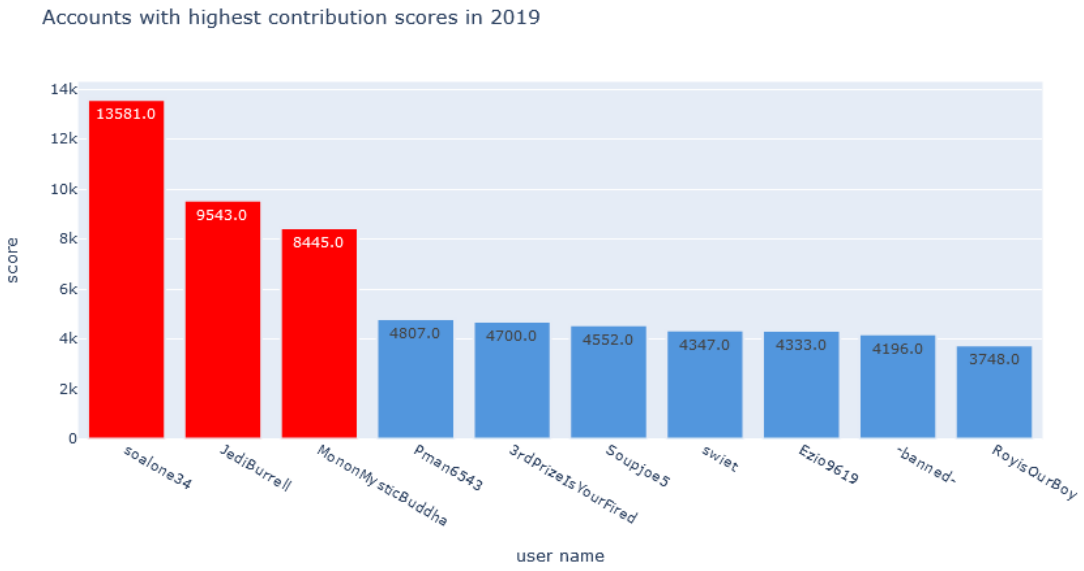
- Total comments in 2019 made by newly created accounts(2019): 1862

Submissions

- Total submissions in 2019 made by newly created accounts(2019): 408
- The percentage % of 2019 submissions made by newly created accounts(2019): 10.69

2019 Contributions Scores

- count 23630
- mean 23.9
- std 175.3
- min -247
- 25% 1
- 50% 2
- 75% 9
- max 13581



The red bars indicates banned accounts

- Users have high scores
    - 13814 soalone34
    - 12609 JediBurrell
    - 14703 MononMysticBuddha
    - 20066 Pman6543
    - 7491 3rdPrizeIsYourFired
    - 11195 Soupjoe5
    - 15996 swiet
    - 5643 Ezio9619
    - 361 -banned-
    - 8224 RoyisOurBoy

soalone34

- Created on 2019-03-15
- Has only 8 contributions in 2019
    - comment 6
    - submission 2
- in those subreddits
    - r/MensRights 4
    - r/movies 3
    - r/entertainment 1
- Users have minimum scores:
    - 9219 Peregrino234
    - 19780 JustMadeThisNameUp

MedivhTheEternal

- Created on 2019-03-03
- Has the minimum contribution scores in 2019

Texts of **Peregrino234:**

- I know this has nothing to do with the post but I just want to say Hitler was a really bad person.

- Sort my comments by top

- I said comments

- Lel

- Those english speaking insults have no power here

- What? I just spelled wrong the word hitler and I had to correct it

Conclusions

Banned / Unverified Accounts

- About 19.82% of 2019 contributions were made by banned (7.92% --> 1875) and unverified (11.9% --> 2819) accounts.
- About 18.3% of 2019 submissions were made by banned (13.8% --> 527) and unverified (4.52% -> 173) accounts.
- 18.9% of the peak day contributions (2019-03-15) were made by banned (5.68% --> 183) and unverified (13.3% --> 427) accounts.
- 10% of submissions of the peak day submissions (2019-03-15) were made by banned accounts(2.5% --> 1) and unverified accounts (7.5% --> 3).

Banned

- **"3rdPrizeIsYourFired"**: this user's contributions got the highest scores.

  (Since this user is banned, we have no user information but, we can further investigate his contributions)

- **"3rdPrizeIsYourFired"**: made 6 contributions
  - submission 5
  - comment 1
- **Peregrino234** this user contribution got the minimum scores.
  - he made 6 different comments in one subreddit **r/pussypassdenied** in the same day **2019-03-03**
- **NOTE:** "**imsrikant**": this user made 22 submissions with the same text in the same time in 6 different subreddits
  - r/Celebhub 8
  - r/gentlemanboners 7
  - r/CelebBattles 4
  - r/Celebs 2
  - ...

  in these dates
  - 2019-05-04 6
  - 2019-04-17 6
  - 2019-05-06 3
  - 2019-04-15 3
  - 2019-04-19 2
  - ...

Unverified

Unverified Accounts Contributions in 2019

Accounts Creation Year	n_contributions
2018	24.8% (699)
2019	18.9% (533)
others	56.3% (1587)

Unverified Accounts Contributions in 2019 peak day (2019-03-15)

Accounts Creation Year	n_contributions
2018	26.2% (112)
2019	11% (47)
others	62.8% (268)

Unverified Accounts Submissions in 2019

Accounts Creation Year	n_submissions
2018	30.6% (53)
2019	32.9% (57)
others	36.4% (63)

- **users with highest link karma**
    - 'WikiTextBot'
    - 'agree-with-you'
    - 'B-VOLLEYBALL-READY'
- **agree-with-you** unverified account with the highest comment karma
    - made 2 comments on two different subreddits:
        - r/PurplePillDebate 1

        - r/JerkOffToCelebs 1
    - the time of two comments is: 2018-03-11 00:17:42
- A lot of unverified users has a link karma of **1**

  'spudd666', 'SkribbleSkout', 'itsmevictor', 'itsmevictor', 'pragmaticerection', 'pragmaticerection', 'pragmaticerection', 'SkribbleSkout', 'IWW4', 'Zozbot', 'SkribbleSkout', '1Telluride', 'SkribbleSkout', 'SkribbleSkout', 'Beaniebabetti', 'Jewels419', 'hackerman991', 'hackerman991', 'Quilpo', 'keyboardbuddhist'

- **ee4m** has the minimum comment karma
- **RoyisOurBoy** this user has the highest score among the unverified users
    - created at 2019-03-02
    - made 3 submissions in 2 different subreddits:
        - r/entertainment 2
        - r/movies 1
- **JustMadeThisNameUp** this user has the minimum score among the unverified users

2019 Accounts

- Total contributions in 2019 made by newly created accounts(2019): 2270
- The percentage % of 2019 contributions made by newly created accounts(2019): 14.18
- Total comments in 2019 made by newly created accounts(2019): 1862
- Total submissions in 2019 made by newly created accounts(2019): 408
- The percentage % of 2019 submissions made by newly created accounts(2019): 10.69
- About 23.79% of 2019 Contributions in 2019 were made by users created in 2018 and 2019.
- About 15.91% of 2019 Contributions on 2019-03-15 were made by users created in 2018 and 2019.
- About 25.4% of 2019 Submissions in 2019 were made by users created in 2018 and 2019.
- About 17.5% of 2019 Submissions on 2019-03-15 were made by users created in 2018 and 2019.

2018 and 2019 Accounts Contributions in 2019

Accounts Creation Year	n_contributions
2018	14.2% (3357)
2019	9.59% (2270)

banned	7.92 (1875))
others	68.3% (16176)

2018 and 2019 Accounts Contributions in 2019 peak day (2019-03-15)

Accounts Creation Year	n_submissions
2018	12.4% (399)
2019	3.51% (113)
banned	5.68% (183)
others	78.4% (2526)

2018 and 2019 Accounts Submissions in 2019

Accounts Creation Year	n_contributions
2018	14.7% (562)
2019	10.7% (408)
banned	13.8% (527)
others	68.3% (16176)

2018 and 2019 Accounts Submissions in 2019 peak day (2019-03-15)

Accounts Creation Year	n_submissions
2018	12.4% (399)
2019	2.5% (1)
banned	2.5% (1)
others	78.4% (2526)

- user **Inbox_ME_UR_WHATSAPP** made 4 submissions in the 2 subreddits **r/Celebsnudess, r/sexycelebs** in different days:
    - 2019-01-08 1
    - 2019-01-13 1
    - 2019-01-11 1
    - 2019-01-30 1
- user **Win168k** made 4 submissions in the same subreddit **u/Win168k**
    - 2019-12-09 1
    - 2019-10-15 1
    - 2019-10-13 1
    - 2019-08-11 1
- **Soalone34**
    - Created on 2019-03-15
    - Has only 8 contributions in 2019
        - comment 6
        - submission 2
    - in those subreddits
        - r/MensRights 4
        - r/movies 3
        - r/entertainment 1
- **MedivhTheEternal**
    - Created on 2019-03-03
    - Has the minimum contribution scores in 2019